



# UNION CHRISTIAN COLLEGE ALUVA-2



SSR 5<sup>th</sup> CYCLE 2023



Criterion 1

## 1.3.2 Student Projects and Internships

**A Project Report  
On  
“COVID-19 DETECTION SYSTEM”**

**Submitted to the  
Department of MCA  
In partial fulfillment of the**

**MASTER OF COMPUTER APPLICATIONS**

**Under the guidance of  
Ms. Reenu Mariam Cherian**

**Project Done by  
AISWARYA MOHAN  
Reg No:213242210179**



**DEPARTMENT OF MCA**

**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**

**August 2023**



## CERTIFICATE

This is to certify that **Ms. AISWARYA MOHAN**, (Reg. No: 213242210179) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**COVID-19 OR PNEUMONIA DETECTION SYSTEM**" in **PYTHON** under the guidance of our senior faculties towards the fulfilment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking

**For RISS TECHNOLOGIES**

Chief Executive Officer



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**“BUDGET AND EXPERIENCE BASED TRAVEL PLANNER  
USING COLLABARITIVE FILTERING”**

is a bonafide work done by

**AKASH FRANCIS**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

2021 – 2023

*Francis*  
21/8/23  
Ms. Sherna Mohan

Head of Department

*L. R. Varghese* 14/08/2023  
Dr. Lince Rachel Varghese

Project Guide

Submitted for the Viva-Voice Examination held on... 22-08-2023

*Joseph Paul*  
22/8/23  
External Examiner1

(Name & Signature)

*Asya P Pillai*  
22/8/23  
External Examiner2

(Name & Signature)

ALC/EKM/23 – 77/145

04 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Mr. Akash Francis [Reg No. 213242210182]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed his project titled *“Budget and Experience Based Travel Planner using Collaborative Filtering”* using Android and Php from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Jerin James in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



UNION CHRISTIAN COLLEGE ALUVA, KERALA



## BONAFIDE CERTIFICATE

Certified that the Project Work entitled

**G-Medicals (A Medicine Authentication System)**

is a bonafide work done by

**ABHIRAMI S**

*In partial fulfilment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*21/8/23*

Head of the Department

*21/8/23*  
Project Guide

Submitted to the Viva-Voice Examination held on.....*21-08-2023*

External Examiner 1

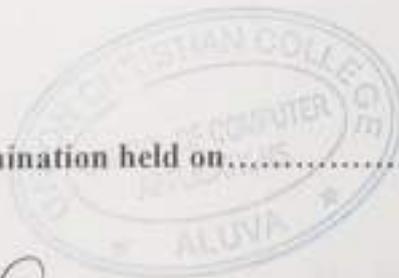
(Name & Signature)

*21/8/23*  
*Joseph Paul*

External Examiner 2

(Name & Signature)

*21/8/23*  
*Arya P. Pillai*



**CERTIFICATE**

This is to certify that **Ms. ABHIRAMI S.** (Reg. No: 213242210172) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**A BLOCKCHAIN BASED COUNTERFEIT MEDICINE AUTHENTICATION SYSTEM**" in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking.

**For RISS TECHNOLOGIES**



Chief Executive Officer



A Project Report  
On

**EMOTION BASED MUSIC PLAYER**

*Submitted to the*

**Department of MCA**

*In partial fulfillment of the*

**MASTER OF COMPUTER APPLICATIONS**

Under the guidance of

**Ms. AMRUTHA KARTHIKEYAN**

**Project Done by**

**ABIN JOSE**

Reg no: 213242210173



**DEPARTMENT OF MCA**

**UNION CHRISTIAN COLLEGE, ALUVA**

*August 2023*

**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**EMOTION BASED MUSIC PLAYER**

is a bonafide work done by

**ABIN JOSE**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021 – 2023**

*Sherna Mohan*  
Ms. Sherna Mohan

Head of Department

*Amrutha*  
Ms. Amrutha Karthikeyan

Project Guide

Submitted for the Viva-Voice Examination held on... *21-08-2023*

*Joseph Paul*  
External Examiner1

(Name & Signature)

External Examiner2

(Name & Signature)





## CERTIFICATE

This is to certify that **Mr. ABIN JOSE. (Reg. No: 213242210173)** Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled **“EMOTION BASED MUSIC PLAYER”** in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of **“Master of Computer Applications”** during the period of May 2023 to August 2023.

He successfully completed the project and during the period he was methodical and hardworking.

**For RISS TECHNOLOGIES**

Chief Executive Officer



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"FITNESS TRACKING APP"

is a bonafide work done by  
ADARSH G PRABHU  
Reg No:213242210175

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna Mohan*  
14/8/23  
Ms. Sherna Mohan

Head of the Department

*Rachel Varghese*  
14/08/2023  
Dr. Lince Rachel Varghese

Project Guide

Submitted for the Viva-Voce Examination held on...21/08/2023...

*Joseph Paul*  
21/8/23  
External Examiner1

Name & Signature)

*Araya P Pillai*  
21/8/23  
External Examiner2

Name & Signature)

## CERTIFICATE

This is to certify that **Mr. ADARSH G PRABHU**. (Reg. No: 213242210175) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**FITNESS TRACKING APP**" in **PYTHON+ANDROID** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking

For **RISS TECHNOLOGIES**



Chief Executive Officer



UNION CHRISTIAN COLLEGE

ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"SIGN LANGUAGE DETECTION"

is a bonafide work done

by

**MANJU JOHNY**

Reg No: 213242210242

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER  
APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

(2021-2023)

  
Head of the Department  
Mrs. Sherna Mohan

  
Project Guide  
Mrs. Ancy K Paul

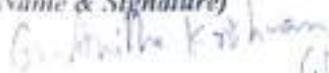
Submitted for the Viva-Voce Examination held on 22/08/2023

*External Examiner1*

*External Examiner2*

*(Name & Signature)*

*(Name & Signature)*

  
G. Anil Kumar  
22/8/23

# SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
541, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com | 91 8848065211

# CERTIFICATE OF COMPLETION

This is to Certify that

*Manju Johny*

(Reg No : 213242210242) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MC University Kottayam has successfully completed the academic project entitled "**Sign Language Detection**" in Machine Learning with Python in our Institution

CERTIFICATE ID : SIG 2307 116  
30 July 2023



A handwritten signature in blue ink, appearing to read "Ajin Mohan".

AJIN MOHAN

DIRECTOR  
SIGNATURE RESOURCE HUB

UNION CHRISTIAN COLLEGE, ALUVA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"EMPLOYEE LEAVE MANAGEMENT SYSTEM"  
is a bonafide work done by

JISHNU T S

*In partial fulfilment of the requirement for the Award of*  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam

2021-2023

*Ms. Sherna Mohan*  
*12/8/23*

Ms. Sherna Mohan  
Head of the Department

*Ms. Sherna Mohan*  
*12/8/23*

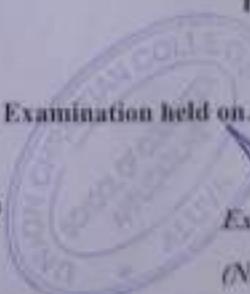
Ms. Sherna Mohan  
Project Guide

Submitted for the Viva-Voce Examination held on *21/8/2023*

*[Signature]*  
*21/08/23*  
External Examiner 1  
(Name & Signature)

*[Signature]*  
*21/08/23*  
External Examiner 2  
(Name & Signature)

*Amya P Pilla*



10 August 2023

Certificate

This is to certify that Jishu T S (Reg No : 213242210227) Masters in Computer Applications Student of Union Christian College, Aluva affiliated to MG University Kottayam has successfully completed the academic project entitled "Employee Leave Management System" using C#, ASP.NET MVC and SQL Server under the guidance of Vignesh Duraisamy.

We wish his success in his future endeavors.

With warm regards,  
For Orion India Systems Pvt. Ltd

*Aditya Darekar*



Aditya Darekar  
Manager - Human Resources

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

“BandVerse Application”

is a bonafide work done by

**SREERAJ M.R.**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*Sherina Mohan*  
Mrs. Sherna Mohan

Head of the Department

*Sikha B Kadayath*  
Mrs. Sikha B Kadayath

Project Guide

Submitted for the Viva-Voce Examination held on.....*23/08/2023*

External Examiner1

*G. Anitha Krishnan*  
(Name & Signature)

*G*  
*23/8/23*

External Examiner2

*Ambili. K S.*

(Name & Signature)

*Ambili*  
*23/8/23*



## SIGNATURE RESOURCE HUB

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SH 1, MC Rd, Thottumkalpedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE OF COMPLETION

This is to Certify that

*Sreeraj M R*

(Reg No : 213242210278) Masters in Computer Applications **Student of Union Christian College, Aluva** affiliated to MG University Kottayam has successfully completed the academic project entitled "**BandVerse**" using Mobile Application Development using Flutter in our Institution

CERTIFICATE ID : SIG-2307-113  
30 July 2023



**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

UNION CHRISTIAN COLLEGE ALUVA, KERALA



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled  
"COVID-19 DETECTION SYSTEM"**

**is a bonafide work done by  
AISWARYA MOHAN**

*In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS*

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**

*Ms SR  
21/8/23*  
**Ms. Sherna Mohan**  
**Head of the Department**

*Reenu*  
**Mrs. Reenu Mariam Cherian**  
**Project Guide**

**Submitted for the Viva-Voce Examination held on.....** 21/08/2023

*Joseph Paul*  
*21/8/23*  
**External Examiner1**  
**Joseph Paul**

*Asya P Pillai*  
*21/8/23*  
**External Examiner2**  
**Asya P Pillai**



## CERTIFICATE

This is to certify that **Ms. AISWARYA MOHAN** (Reg. No 213242210179) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**COVID 19 OR PNEUMONIA DETECTION SYSTEM**" in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023.

She successfully completed the project and during the period she was methodical and hardworking.

**For RISS TECHNOLOGIES**

Chief Executive Officer



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"STOCK PRICE PREDICTION USING  
MACHINE LEARNING"

is a bonafide work done by

**AISWARYA VENU**

In partial fulfillment of the requirement for the Award of  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna Mohan*  
14/8/23  
Ms. Sherna Mohan

Head of the Department

*Sikha B Kadayath*  
14/8/23  
Ms. Sikha B Kadayath

Project Guide

Submitted for the Viva-Voce Examination held on...21/08/2023.....

*Joseph Paul*  
21/08/23  
External Examiner1

*Anya P Pillai*  
21/08/23  
External Examiner2

# CERTIFICATE



An ISO 9001:2015 Certified Company



August 8, 2023

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that AISWARYA VENU 4<sup>th</sup> semester MCA student of UNION CHRISTIAN COLLEGE, ALUVA has successfully completed a project titled "STOCK PRICE PREDICTION USING MACHINE LEARNING" from our organization.

The duration of the project was for 4 months. The Project was incorporated in PYTHON and was implemented successfully.

Thanking you,

For LCC Computer Education

A handwritten signature in black ink, appearing to read 'Ramaswamy', is written over a faint, illegible background.

Ramaswamy  
Director



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**“SMART PEER: THE CAR POOLING APP”**

is a bonafide work done by

**AKHILESH KUMAR C B**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University , Kottayam**

**(2021 – 2023)**

*Sherna Mohan*  
14/8/23

**Ms. Sherna Mohan**

**Head of Department**



*Amrutha*

**Ms. Amrutha Karthikeyan**

**Project Guide**

*Asya P. Pillai*  
21/8/23

**External Examiner 2**

**(Name & Signature)**

Submitted for the Viva-Voice Examination held on 21/08/2023

*Joseph Paul*  
21/8/23

**External Examiner 1**

**(Name & Signature)**



# SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
SH 1, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE OF COMPLETION

This is to Certify that

*Akhilesh Kumar C. B.*

(Reg No : 213242210184) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**Smart Peer - Car Pooling App**" using Mobile Application Development using Flutter in our Institution

CERTIFICATE ID : SIG-2307-105  
30 July 2023



**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

A Project Report  
On  
"KISAN MART"  
Submitted to the  
Department of MCA  
In partial fulfillment of the

**MASTER OF COMPUTER APPLICATIONS**

Under the guidance of  
Mrs. Ancy K Paul

Project Done by  
ALEENA SUNIL  
Reg No:213242210185



**DEPARTMENT OF MCA  
UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**

**August 2023**

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"KISAN MART"

is a bonafide work done by  
Aleena Sunil

In partial fulfillment of the requirement for the Award of  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*File no. 14/19/23*  
Head of the Department  
Mrs. Sherna Mohan

*Ancy K Paul*  
Project Guide  
Mrs. Ancy K Paul

Submitted for the Viva-Voce Examination held on *31/8/23*

External Examiner 1

*Joseph Paul*  
*21/8/23*

External Examiner 2

*21/08/23*  
*Anya P Pillai*



## IGNOSI ENTERPRISES

G3B, Thejaswini, Technopark Campus, Thiruvananthapuram  
Kerala - 695581 | info@ignosi.in | www.ignosi.in  
Ph: 94471994230 | 8921338393

# CERTIFICATE

## OF COMPLETION

This is to Certify that

*Aleena Sunil*

(Reg No: 213242210185) Masters in Computer Applications final year student of Union Christian College, Aluva has done project work in our company on "Kisan Mart" under the guidance of the Project Manager, IGNOSI ENTERPRISES towards the partial fulfillment of the award of MCA during the period from June 2023 to July 2023. During this period her performance was good.

09 August, 2023



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

"SUN CONNECT"

is a bonafide work done by

ALEN K JOSEPH

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna*

Ms. Sherna Mohan

Head of the Department

*Sikha B Kadayath*

Ms. Sikha B Kadayath

Project Guide

Submitted for the Viva-Voce Examination held on 21/02/2023

External Examiner 1

(Name & Signature)

*Joseph Paul*  
21/02/23  
UNION CHRISTIAN COLLEGE  
ALUVA, KERALA  
MASTER OF COMPUTER APPLICATIONS

External Examiner 2

(Name & Signature)

*Arya P Pillai*  
21/02/23

ALC/EKM/23 – 77/142

01 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Mr. Alen K Joseph (Reg No: 213242210186)* of *Union Christian College, Aluva* has been associated with our firm *Allievo Learning Centre, Palarivattom* from 05/06/2023 to 27/07/2023 (Excluding Saturdays, Sundays, Public holidays and College Working Days). He has maintained 90% attendance during his project work. This letter also certifies that he joined the organisation as a part of his academic project '*Sun Connect*' under the guidance of Mr. Anandu P A.

This certification is issued to *Mr. Alen K Joseph* upon his request for any legal purposes it can serve.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**BLOOD AND ORGAN DONATION SYSTEM**  
is a bonafide work done by

**ALVIN ANTONY VINCENT**

*in partial fulfillment of the requirement for the award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam  
2021-2023

*Sherna*  
*12/8/23*  
Mrs. Sherna Mohan  
Head of the Department



*[Signature]*  
Mrs. Manu Sudeesh  
Project Guide

Submitted for the Viva-Voice Examination held on 21-8-2023

*[Signature]*  
*21/8/23*  
External Examiner 1  
(Name & Signature)

*Joseph Paul*

*[Signature]*  
*21/08/23*  
Arya P. Pillai  
External Examiner 2  
(Name & Signature)



## SIGNATURE RESOURCE HUB

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SH 1, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE

## OF COMPLETION

This is to Certify that

*Alvin Antony Vincent*

(Reg No : 213242210187) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**Aasha - Blood and Organ Donation Website**" using Angular Web Application in our Institution

CERTIFICATE ID: SIG-2307-111  
30 July 2023



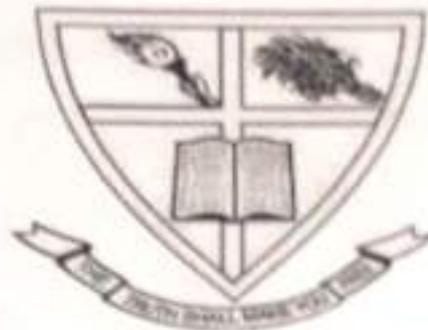
**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

**UNION CHRISTIAN COLLEGE**

*(Affiliated to Mahatma Gandhi University)*

**Aluva, Kerala, India**



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
**REAL ESTATE PRICE PREDICTION**

is a bonafide work done by

**ANEENA PRASAD**

Reg No: 213242210190

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*Paul*  
16/8/23

Head of the Department



*Project Guide*  
16/8/23

Project Guide

Submitted for the Viva-Voce Examination held on 21-8-2023

*Joseph Paul*  
21/8/23

External Examiner 1

*Joseph Paul*

*Anya P. Pillai*  
21/8/23

External Examiner 2



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August 8, 2023

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that ANEENA PRASAD 4<sup>th</sup> semester MCA student of UNION CHRISTIAN COLLEGE,ALUVA has successfully completed a project titled "REAL ESTATE PRICE PREDICTION USING MACHINE LEARNING" from our organization.

The duration of the project was for 4 months. The Project was incorporated in PYTHON and was implemented successfull

Thanking you,

For LCC Computer Education

A handwritten signature in black ink, appearing to read 'Ramaswamy'.

**Ramaswamy  
Director**



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

"Predictor for Herbal Medicine"

is a bonafide

work

done by

Anila Biju

Reg No:213242210192

*In partial fulfillment of the requirement for the Award of*

MASTER OF COMPUTER  
APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna*  
*10/5/23*  
Head of the Department

Mrs. Sherna Mohan



Project Guide *Amrutha*

Ms. Amrutha Karthikeyan

Submitted for the Viva-Voce Examination held on 21/8/2023

External Examiner 1

(Name & Signature)

*G. Anitha Krishnan*  
*21/8/23*

External Examiner 2

(Name & Signature)

*Ambili. K. G*

*Ambili*  
*21/8/2023*



## CERTIFICATE

This is to certify that **Ms. ANILA BIJU. (Reg. No: 213242210192)** Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled **“PREDICTOR FOR HERBAL MEDICINE”** in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of “Master of Computer Applications” during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking.

**For RISS TECHNOLOGIES**

A handwritten signature in green ink, appearing to read "Deborah.M", with a horizontal line underneath.

Chief Executive Officer



**A Project report  
On  
ONLINE MOBILESHOP MANAGEMENT SYSTEM**

**Submitted to the  
Department of MCA  
In partial fulfillment of the**

**MASTER OF COMPUTER APPLICATIONS**

**Under the guidance of  
Mrs. Sikha B Kadayath**

**Project Done by  
ANJU P R  
Reg No: 213242210196**



**DEPARTMENT OF MCA  
UNION CHRISTIAN COLLEGE  
ALUVA, KERALA  
August 2023**

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"ONLINE MOBILE SHOP MANAGEMENT SYSTEM"  
is a bonafide work done by  
Anju P R

*In partial fulfillment of the requirement for the Award of*  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam

2021-2023

*Sherna*  
*21/8/23*  
Head of the Department

Mrs. Sherna Mohan

*Sikha*  
*21/8/23*  
Project Guide

Mrs Sikha B Kadayath

Submitted for the Viva-Voce Examination held on 21/08/2023

External Examiner1

(Name&Signature)

*G. Anilko Krishnan*

*AB*  
*21/8/23*

External Examiner2

(Name&Signature)

*Ambili*  
*21/8/2023*  
*Ambili.K.G*





## IGNOSI ENTERPRISES

G3B, Thejaswini, Technopark Campus, Thiruvananthapuram  
Kerala - 695581 | info@ignosi.in | www.ignosi.in  
Ph: 9447 094 230 | 8921 338 393



# CERTIFICATE

## OF COMPLETION

This is to Certify that

*Anju P R*

(Reg No: 213242210196) Masters in Computer Applications final year student of Union Christian College, Aluva has done project work in our company on "Online mobile shop management" under the guidance of the Project Manager, IGNOSI ENTERPRISES towards the partial fulfillment of the award of MCA during the period from June 2023 to July 2023. During this period her performance was good.

09 August, 2023



UNION CHRISTIAN COLLEGE

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**CRUISESHIP MANAGEMENT SYSTEM**

is a bonafide work done by

**ANTONY ROSHAN K G**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

2021 – 2023

*Sherna*  
*12/18/23*  
Head of Department

Ms. Sherna Mohan



*Ancy K Paul*  
Project Guide

Ms. Ancy K Paul

Submitted for the Viva-Voice Examination held on *21-08-2023*.

External Examiner1

*G. Anilkumar*

*G.B*  
*21/8/23*

External Examiner2

*Ambili K E*

*Ambili*  
*21/8/2023*



## **CERTIFICATE**

This is to certify that **Mr. ANTONY ROSHAN K G. (Reg. No: 213242210197)** Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled “**CRUISESHIP MANAGEMENT SYSTEM**” in **C#** under the guidance of our senior faculties towards the fulfillment of the award of “Master of Computer Applications” during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking.

**For RISS TECHNOLOGIES**

A handwritten signature in green ink, appearing to read "Deborah.M", written over a horizontal line.

Chief Executive Officer



UNION CHRISTIAN COLLEGE

ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
**“LAND SLIDE PREDICTION”**

is a bonafide work done

by

**ANUJA FRANCIS**

Reg No: 213242210198

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER  
APPLICATIONS**

Degree From

**Mahatma Gandhi University, Kottayam**

(2021-2023)

*Sherna*  
*16/07/23*  
Head of the Department  
Mrs. Sherna Mohan

*Amrutha*  
Project Guide  
Mrs. Amrutha Karthikeyan

Submitted for the Viva-Voce Examination held on 21-08-2023

External Examiner 1

(Name & Signature)

*Ge. Anil Kumar*  
*CB*  
*21/08/23*

External Examiner 2

(Name & Signature)

*Amrutha*  
*21/8/2023*  
*Ambili. K.G.*

# SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
SH 1, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

## CERTIFICATE OF COMPLETION

This is to Certify that

*Anuja Francis*

(Reg No : 213242210198) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**Landslide Prediction using Logistic Regression**" in Machine Learning with Python in our Institution

CERTIFICATE ID : **SIG-2307-101**  
30 July 2023



**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

Certified that the project entitled

**“WONDER VISION”**

**THE BLIND ASSISTANCE APP**

Is a bonafide work done by

**ARJUN SAJAN**

In partial fulfillment of the requirement for the award of

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

2021-2023

*MS*  
*21/8/23*  
Ms. Sherna Mohan  
Head of the Department

*Reenu*  
Ms. Reenu Mariam Cherian  
Project Guide

Submitted for the viva-voce Examination held on...*21.08.2023*.....

External Examiner 1

(Name & Signature)

*Arjun Sajjan*

*AS*

*Ambika K G*  
*Ambika*  
*21/8/23*  
External Examiner 2

(Name & Signature)

**CERTIFICATE**

This is to certify that **Mr. ARJUN SAJAN.** (Reg. No: 213242210201) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled **“WONDER VISION (BLIND ASSISTANCE APP)”** in **PYTHON+ANDROID** under the guidance of our senior faculties towards the fulfillment of the award of **“Master of Computer Applications”** during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking.

**For RISS TECHNOLOGIES**



Chief Executive Officer



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**  
Certified that the Project Work entitled

**"ONLINE SUBJECTIVE ANSWER VERIFYING SYSTEM USING AI"**

is a bonafide work done by  
**ARUNIMA K.S**

*In partial fulfillment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**

*Sherina Mohan*  
21/06/23

**Head of the Department**

*Veena Jose*

**Project Guide**

Submitted for the Viva-Voce Examination held on 21-06-2023

**External Examiner 1**

*Gr. Anitha Krishnan*

*Gr*  
21/06/23

*Abhile*  
21/06/2023  
Anubitha K.G

**External Examiner 2**

Ernakulam,  
August 01, 2023.

FolioNo:000601

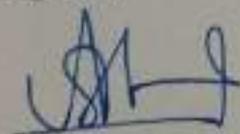
## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Ms.Arunima KS** (Reg.No.213242210203) MCA Final year student of *UC College, Aluva* has done project work in our company on "Online Subjective answer verifying system Using Artificial Intelligence" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**



**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled  
"DYNAMIC PRICING FOR EV CHARGING STATIONS"  
is a bonafide work done by  
ASHNA VARGHESE**

*In partial fulfillment of the requirement for the Award of the  
MASTER OF COMPUTER APPLICATIONS*

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021-2023**

**Ms. Sherna Mohan**

**Head of the Department**

**Dr. Shine K Goerge**

**Project Guide**

**Submitted for the Viva-Voce Examination held on...21.08.2023...**

**External Examiner1**

**External Examiner2**

21/8/2023  
Am B. K. G

# CERTIFICATE

**Allievo Learning Centre** Excellence in,  
Embedded System | VLSI | DIF | DSP | Basic Electronics | PHP | Java | Android | NS2

ALC/EKM/23 - 77/148

04 August, 2023

## TO WHOM IT MAY CONCERN

This is to certify that *Ms. Ashna Varghese [Reg No. 213242210204]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed her project titled *"Dynamic Pricing for EV Charging Stations"* using Python and Machine Learning from *25 May, 2023 to 27 July, 2023*

The project was done under the guidance of Mr. Joel Kunjachan Varghese in partial fulfillment of the requirements for the award of the degree of. *Master of Computer Applications*

Yours Truly,

For,

Allievo Learning Centre

Abraham V Thomas  
(HR Manager)



UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled**

**“SKIN DISEASE DETECTION”**

**is a bonafide work done by**

**Athira Sajikumar**

*In partial fulfilment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*Sherna*  
*16/8/23*  
**Ms. Sherna Mohan**

**Head of the Department**

*Amrutha*  
**Ms. Amrutha Karthikeyan**

**Project Guide**



**Submitted for the Viva-Voce Examination held on.....21-08-2023**

**External Examiner1**

**(Name & Signature)**

*G. Anil Prishman*

*AB*  
*21/8/23*

**External Examiner2**

**(Name & Signature)**

*Amrutha K.G*

*Amrutha*  
*21/8/2023*

August 3, 2023

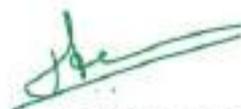
**To Whom So Ever It May Concern**

*This is to certify that Athira Sajikumar (Reg. No 213242210206), 4<sup>th</sup> semester MCA student of Union Christian College , Aluva has successfully completed her project entitled "**Skin Disease Detection**" from our organization.*

*The project was incorporated in **Python** and was implemented successfully. During the project period her performance, hard work and skill set were found to be **GOOD**.*

*We wish her all the best for her bright future endeavors.*

**DIRECTOR**



**ALAN DANIEL**



A Project Report On

**“IMAGE AUTHENTICATION BASED ON WATER MARKING  
APPROACH”**

Submitted to the

**Department of MCA**

In partial fulfillment of the

**MASTER OF COMPUTER APPLICATIONS**

Under the guidance of

Mrs. Veena Jose

Project Done by

**SHASNA BANU KN**

**Reg No: 213242210266**



**DEPARTMENT OF MCA**

**UNION CHRISTIAN COLLEGE ALUVA, KERALA**

**August – 2023**

## CERTIFICATE

**Allievo Learning Centre** Excellence In,

Embedded System | ML/BI | DIP | DSP | Basic Electronics | PHP | Java | Android | NS2

AI/CE/KN/23-77/155

04 August, 2023

### TO WHOM IT MAY CONCERN

This is to certify that **Ms. Shweta Bannu K N [Reg No. 2113242210206]** (fourth semester MCA student of **Enlon Christian College, Aluva**) have successfully completed her project titled **"Toungue Authentication Based on Watermarking Approach"** using Python from **25 May, 2023 to 27 July, 2023**.

The project was done under the guidance of **Mr. Reshan Jose** in partial fulfillment of the requirements for the award of the degree of, **Master of Computer Applications**.

Yours Truly,

For,

**Allievo Learning Centre**



**Abraham V. Rodrigues**  
(HR Manager)



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

“IMAGE AUTHENTICATION BASED ON

WATERMARKING APPROACH”

is a bonafide work done by

SHASNA BANU KN

*In partial fulfillment of the requirement for the Award of*

MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*H. H. H. H.*

Head of the Department

Mrs. Sherna Mohan



Project Guide

Mrs. Veena Jose

*Veena Jose*

Submitted for the Viva-Voce Examination held on 23-08-2023

External Examiner 1

*Joseph Paul*  
23/8/23

(Name & Signature)

*Joseph Paul*

External Examiner 2

*Aluva P. Pillai*  
23/8/23

(Name & Signature)

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

“MCA E LEARNER”

is a bonafide work

done by

CHRISTEENA GEORGE

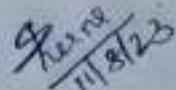
Reg No:213242210211

*In partial fulfillment of the requirement for the Award of*

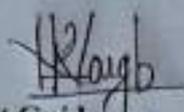
MASTER OF COMPUTER  
APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

  
Head of the Department

Mrs. Sherna Mohan

  
Project Guide

Dr Lince Rachel Varghese

Submitted for the Viva-Voce Examination held on.....21-08-2023

External Examiner 1

(Name & Signature)

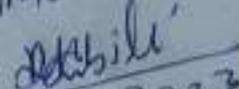
G. Anilkrishnan

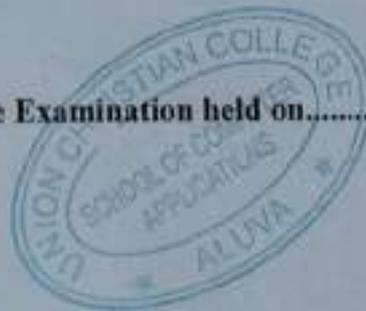
  
21/8/23

External Examiner 2

(Name & Signature)

Ambili

  
21/8/2023





# IGNOSI ENTERPRISES

G3B, Thejaswini, Technopark Campus, Thiruvananthapuram  
Kerala - 695581 | info@ignosi.in | www.ignosi.in  
Ph: 9447 094 230 | 8921 338 393

## CERTIFICATE

### OF COMPLETION

This is to Certify that

*Christeena George*

(Reg No: 213242210211) Masters in Computer Applications final year student of Union Christian College, Aluva has done project work in our company on "MCA E-Learner" under the guidance of the Project Manager, IGNOSI ENTERPRISES towards the partial fulfillment of the award of MCA during the period from June 2023 to July 2023. During this period her performance was good.

09 August, 2023





**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled**  
**“AUTOCONNECT – VIRTUAL CAR SHOWROOM”**  
**is a bonafide work done by**  
**CHRISTO ABRAHAM**

*In partial fulfilment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*Ms. Sherna Mohan*  
*18/8/23*

**Ms. SHERNA MOHAN**

**Head of the Department**

*Ms. Sikha B Kadayath*  
*18/8/23*

**Ms. SIKHA B KADAYATH**

**Project Guide**

**Submitted for the Viva-Voce Examination held on *22/08/2023***

**External Examiner 1**

**(Name & Signature)**

*G. Anil Kumar Nishman*

*GA*  
*22/8/23*

**External Examiner 2**

**(Name & Signature)**

*Ambili K.G*

*Ambili*  
*22/8/23*

# SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
SH 1, MC Rd. Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE OF COMPLETION

This is to Certify that

*Christo Abraham*

(Reg No : 213242210212) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**Autoconnect - virtual car showroom**" using Mobile Application Development using Flutter in our Institution

CERTIFICATE ID : **SIG-2307-114**  
30 July 2023



A handwritten signature in black ink, appearing to read 'Ajin Mohan', written over a horizontal line.

**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

UNION CHRISTIAN COLLEGE  
ALPVA, KERALA



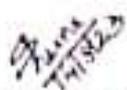
**BONA FIDE CERTIFICATE**

Certified that the Project Work entitled  
"ALCOGUARD"  
is a bonafide work done by  
**AJAYRAJ R**

In partial fulfillment of the requirement for the Award of  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University, Kottayam**  
(2021-2023)

  
Ms. **SIERNA MOHAN**

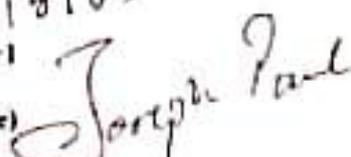
Head of the Department

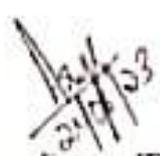
  
Ms. **ANICY K PAUL**  
Project Guide

Submitted for the Viva-Voce Examination held on 21/08/2023

  
21/8/23  
External Examiner 1

(Name & Signature)



  
21/8/23  
Arya P Pillai  
External Examiner 2  
Name & Signature)

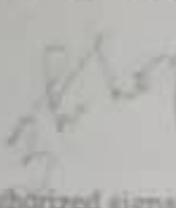
DATE: 11-8-2023

## PROJECT COMPLETION CERTIFICATE

This is to certify that, Mr. Ajay Raj A.R (Reg No. 213242210181), Master of Computer Applications, IV semester student of UNION CHRISTIAN COLLEGE ALUVA, affiliated to Mahatma Gandhi University, has done project work entitled "Alco Guard" – Mobile and web application in React, Node Js, SQL, under the guidance of Mr. Joel P Jacob, towards the fulfillment of the award of "Master of Computer Applications", during the period of April 5<sup>th</sup>, 2023, to August 11<sup>th</sup>, 2023, from Road Labs Pvt Ltd.

He successfully completed the project, and during the period, he was methodical and hardworking.

For Road Labs Pvt Ltd



Authorized signatory  
Ms. Liz Thomas  
Chief Executive officer  
Road Labs Pvt Ltd.

For ROAD LABS PVT LTD.

DIRECTOR

Adam star Building 2<sup>nd</sup> Floor, near Onam Park, Mavelipuram, Kakkanad - 682030

CIN: U72900KL2017PTC051450

A Project Report  
On

**VIRTUAL DRESSING ROOM:  
SMART APPROACH TO SELECT AND BUY CLOTHES**

*Submitted to the*

**Department of MCA**

*In partial fulfillment of the*

**MASTER OF COMPUTER APPLICATIONS**

Under the guidance of

**Ms. LEE JULIET GEORGE**

**Project Done by**

**S DEVIKA DAS**

Reg no: 213242210171



DEPARTMENT OF MCA

**UNION CHRISTIAN COLLEGE, ALUVA**

*August 2023*



Ernakulam,  
August 01, 2023.

FolioNo:000605

## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Ms.S Devika Das** (Reg.No.213242210171) MCA Final year student of *UC College, Aluva* has done project work in our company on "Virtual Dressing Room: Smart Approach to Select and Buy Clothes" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,

Authorized Signatory

**FLEMING Embedded and Software Solutions.**



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**PLACEMENT CELL APPLICATION**

is a bonafide work done by

**DEVINARAYAN K**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021 – 2023**

*Sherna*  
*14/8/23*

Ms. Sherna Mohan

Head of Department

*Lee Juliet*  
*14/8/23*

Ms. Lee Juliet George

Project Guide

Submitted for the Viva-Voice Examination held on *22/08/2023*



*Joseph Paul*  
*22/8/23*

External Examiner 1

(Name & Signature)

*Joseph Paul*

External Examiner 2

(Name & Signature)

# CERTIFICATE



## SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
SH1, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE OF COMPLETION

This is to Certify that

*Devinarayan K*

(Reg No : 213242210214) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**Placement Cell Application**" using Mobile Application Development using Flutter in our Institution

CERTIFICATE ID: **SIG-2307-107**  
**30 July 2023**



**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled**

**“ONLINE TRANSACTION FRAUD DETECTION USING BACKLOGGING ON  
E-COMMERCE WEBSITE”**

**is a bonafide work done by**

**DIVYA J**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*Sherna Mohan*  
*16/8/23*  
**Ms. Sherna Mohan**  
**Head of the Department**

*Reenu Mariam Cherian*  
*20/08/23*  
**Ms. Reenu Mariam Cherian**  
**Project Guide**

Submitted for the Viva-Voce Examination held on... *22-08-2023*

*Joseph Paul*  
*22/8/23*  
**External Examiner 1**

**(Name & Signature)**

*Joseph Paul*

*Asya P. Pilla*  
*22/08/23*  
**External Examiner 2**

**(Name & Signature)**

ALC/EKM/23 – 77/150

04 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Ms. Divya J [Reg No. 213242210215]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed her project titled *“Online Transaction Fraud Detection using Backlogging on E-commerce Website”* using Python and Django from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Akhil Vinayak in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

**Allievo Learning Centre**

Abraham V. Thomas  
(HR Manager)



UNION CHRISTIAN COLLEGE

ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work

entitled

“WEED IDENTIFICATION USING DEEP LEARNING

AND IMAGE PROCESSING”

is a bonafide

work done

by

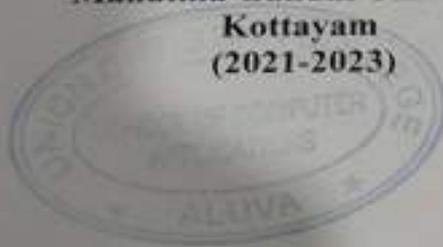
Sona Saviour

Reg No:213242210274

*In partial fulfillment of the requirement for the Award of*

MASTER OF COMPUTER  
APPLICATIONS

Degree From  
Mahatma Gandhi University,  
Kottayam  
(2021-2023)



Head of the Department

Ms. Sherna Mohan

Project Guide

Ms. Thana Sudheesh

Submitted for the Viva-Voce Examination held on..... 23/08/23

G. Anil Krichnan  
External Examiner 1

(Name & Signature)

Ambili. K S  
External Examiner 2

(Name & Signature)

Ambili  
23/8/23

ALC/EKM/23 – 77/158

04 August, 2023

TO WHOM IT MAY CONCERN

This is to certify that *Ms. Sona Saviour [Reg No. 213242210274]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed her project titled "*Weed Identification using Deep Learning and Image Processing*" using Python and Machine Learning from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Joel Kunjachan Varghese in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

Allievo Learning Centre



Abraham V. Thomas  
(HR Manager)

A Project Report  
On

**“LEARNING TO DANCE: A GRAPH CONVOLUTIONAL  
ADVERSARIAL NETWORK TO GENERATE REALISTIC DANCE  
MOTIONS FROM AUDIO”**

*Submitted to the*

**Department of MCA**

*In partial fulfillment of the*

**MASTER OF COMPUTER APPLICATIONS**

Under the guidance of

**MS. THANU SUDEESH**

**Project Done by**

**VIJAI K A**

Reg no: 213242210287



**DEPARTMENT OF MCA**

**UNION CHRISTIAN COLLEGE, ALUVA**

*August 2023*

## CERTIFICATE

**Allievo Learning Centre** Excellence in,  
Embedded System | VLSI | DIP | DSP | Basic Electronics | PHP | Java | Android | NS2

---

ALC/EKM/23 – 77/160

04 August, 2023

### TO WHOM IT MAY CONCERN

This is to certify that *Mr. Vijai K A [Reg No. 213242210287]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed his project titled *"Learning to Dance: A graph Convolutional Adversarial Network to Generate Realistic Dance Motions from Audio"* using Python from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Joel Kunjachan Varghese in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



# UNION CHRISTIAN COLLEGE

Aluva, Kerala, India



## BONAFIDE CERTIFICATE

Certified that the Project Work entitled

**“LEARNING TO DANCE: A GRAPH CONVOLUTIONAL  
ADVERSARIAL NETWORK TO GENERATE REALISTIC DANCE  
MOTIONS FROM AUDIO”**

is a bonafide work done by

**VIJAI K A**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

2021 – 2023

*Sherna*  
16/8/23  
Ms. Sherna Mohan

Head of Department



*Tharudeesh*  
16/8/23  
Ms. Tharudeesh

Project Guide

Submitted for the Viva-Voice Examination held on 23-08-2023

*Anilkrishnan*  
External Examiner 1

(Name & Signature)

*AB*  
23/8/23

*Ambili K. G*  
*Ambili*  
23/8/23  
External Examiner 2

(Name & Signature)

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

"CRICNET"

is a bonafide work done by

Solaman Raphel

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna Mohan*  
23/8/23  
Ms. Sherna Mohan  
Head of the Department



*Shine K George*  
Dr. Shine K George  
Project Guide

Submitted for the Viva-Voce Examination held on 23-8-23

External Examiner 1  
*G. Anitha levis hnan*  
*G*  
23/8/23

External Examiner 2  
*Ambili K S*  
*Ambili*  
23/8/23



## CERTIFICATE

This is to certify that **Mr. SOLAMAN RAPHEL**, (Reg. No: 213242210273) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**CRICKET CLUB (CRICNET)**" in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking.

For **RISS TECHNOLOGIES**

Chief Executive Officer



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
**"TRAFFIC SIGN DETECTION AND RECOGNITION SYSTEM"**  
is a bonafide work done by  
**Haripriya Shaji**

*In partial fulfillment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna Mohan*  
24/8/23  
Ms. Sherna Mohan  
Head of the Department

*Lee Juliet George*  
24/8/23  
Ms. Lee Juliet George  
Project Guide

Submitted for the Viva-Voce Examination held on **22-08-2023**.

*Joseph Paul*  
24/8/23  
External Examiner 1  
(Name & Signature)



*Haripriya Shaji*  
24/8/23  
External Examiner 2  
(Name & Signature)



Ernakulam,  
August 01, 2023.

FolioNo:000606

### Project Certificate

#### To Whomsoever It may Concern

This is to certify that Ms.Haripriya Shaji (Reg.No.213242210222) MCA Final year student of UC College, Aluva has done project work in our company on "Realtime Traffic Sign Detection and Recognition System" using PYTHON under the guidance of Project Manager, Fleming Embedded And Software Solutions, Ernakulam towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,

Authorized Signatory



**FLEMING Embedded and Software Solutions.**

Fleming Embedded and Software Solutions LLP,  
Bank Road, Kaloor, Ernakulam, Kerala, India.  
Pin Code : 682 017, Tel: +91 484 4045252

[www.fleming.co.in](http://www.fleming.co.in)

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"BITCOIN PRICE PREDICTION USING  
MACHINE LEARNING"

is a bonafide work done by

Mary Sona N.X

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam (2021-23  
2023)

*Jesne*  
*16/8/23*  
Head of the Department  
Mrs. Sherna Mohan

*Surabhi P.V.*  
Project Guide  
Ms. Surabhi P.V

Submitted for the Viva-Voce Examination held on *22-08-2023*

*G. Anitha Krishnan*  
External Examiner 1

External Examiner 2

*G.P.*  
*22/8/23*



An ISO 9001:2015 Certified Company



August 8, 2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that MARY SONA N.X 4<sup>th</sup> semester MCA student of UNION CHRISTIAN COLLEGE, ALUVA has successfully completed a project titled "BITCOIN PRICE PREDICTION USING MACHINE LEARNING" from our organization.

The duration of the project was for 4 months. The Project was incorporated in PYTHON and was implemented successfully.

Thanking you,

For LCC Computer Education

A handwritten signature in black ink, appearing to read "Ramaswamy".

Ramaswamy  
Director



Ernakulam,  
August 01, 2023.

FolioNo:000594

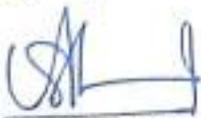
## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Ms.Soumya Sunil** (Reg.No.213242210276) MCA Final year student of *UC College, Aluva* has done project work in our company on "Cyber Security Threats Detection in Internet of Things Using Deep Learning Approach" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,



Authorized Signatory

**FLEMING** Embedded and Software Solutions.



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**Cyber Security Threats Detection in Internet of Things Using Deep Learning Approach**

is a bonafide work done by

**SOUMYA SUNIL**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

2021 – 2023

*Ms. Sherna Mohan*  
23/8/23

Ms. Sherna Mohan

Head of Department

*Ms. Thani Sadeesh*  
23/8/23

Ms. Thani Sadeesh

Project Guide

Submitted for the Viva-Voice Examination held on *23/8/23*...

**External Examiner1**

(Name & Signature)

*Dr. Anitha Krishnan*

*AK*  
23/8/23



**External Examiner2**

(Name & Signature)

*Ambika K.G*

*Ambika*  
23/8/23

**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**PERSON DETECTION AND AERIAL IMAGE  
CLASSIFICATION FOR RESCUE OPERATIONS**

is a bonafide work done by

**FARHANA SHIRIN M R**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021 – 2023**

*Sherna Mohan*  
Ms. Sherna Mohan

Head of Department

*Thiruvudheesh*  
Ms. Thiruvudheesh

Project Guide

Submitted for the Viva-Voice Examination held on *22/6/23*

External Examiner 1

(Name & Signature)

*Joseph Paul*  
*22/8/23*

*Asya P Pillai*  
Ms. Asya P Pillai

External Examiner 2

(Name & Signature)

Ernakulam,  
August 01, 2023.

FolioNo:000604

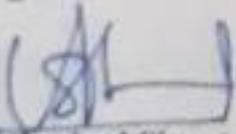
### Project Certificate

#### To Whomsoever It may Concern

This is to certify that **Ms.Farhana Shirin M R** (Reg.No.213242210219) MCA Final year student of *UC College, Aluva* has done project work in our company on "Person Detection And Aerial Image Classification For Rescue Operations" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

Certified that the project entitled

**GUIDE**

Is a bonafide work done by

**GAYATHRY U**

In partial fulfilment of the requirement for the award of

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

Mahatma Gandhi University, Kottayam

2021-2023

*Sherna*  
16/8/23

Mrs. Sherna Mohan  
Head of the Department

*Sherna*  
16/8/23

Mrs. Sherna Mohan  
Project Guide

Submitted for the viva-voce Examination held on... 22/08/2023.....

External Examiner 1

(Name & Signature)

*Joseph Paul*  
22/8/23

External Examiner 2

(Name & Signature)

*Naya P Pillai*  
22/08/23

July 27, 2023

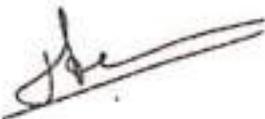
**To Whom So Ever It May Concern**

*This is to certify that **Gayathry U**, 4<sup>th</sup> semester **MCA** student of **Union Christian College, Aluva** has successfully completed her project entitled "**Tourist Recommendation System**" from our organization.*

*The project was incorporated in **PYTHON** and was implemented successfully. During the project period her performance, hard work and skill set were found to be **GOOD**.*

*We wish her all the best for her bright future endeavours.*

DIRECTOR



ALAN DANIEL



UNION CHRISTIAN COLLEGE

Aluva, Kerala, India



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

**A PERFORMANCE SENSITIVE MALWARE DETECTION ON MOBILE DEVICES USING DEEP LEARNING**

is a bonafide work done by

**AISWARIYA C NAIR**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

2021 – 2023

*Sherna Mohan*  
21/8/23

Ms. Sherna Mohan

Head of Department

*Shide K George*

Dr. Shide K George

Project Guide

Submitted for the Viva-Voice Examination held on 21-08-2023

External Examiner 1

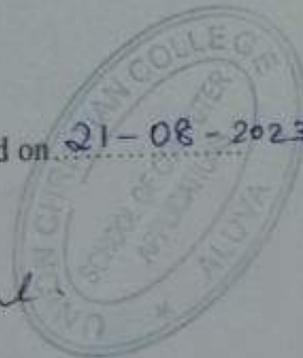
(Name & Signature)

*Joseph Paul*  
21/8/23

*Asya P Pillai*  
21/8/23

External Examiner 2

(Name & Signature)





**FLEMING**  
EMBEDDED AND SOFTWARE  
SOLUTIONS

Ernakulam,  
August 01, 2023.

FolioNo:000592

### Project Certificate

#### To Whomsoever It may Concern

This is to certify that **Ms.Aiswariya C Nair** (Reg.No.213242210178) MCA Final year student of *UC College, Aluva* has done project work in our company on "A Performance Sensitive Malware Detection System Using Deep Learning On Mobile Devices" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,

Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**"WOMEN SAFETY"**

is a bonafide work done by

**ANEETTA N V**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**

Head of the Department

Mrs. Sherna Mohan

Project Guide

Mrs. Veena Jose

Submitted for the Viva-Voce Examination held on 21/8/2023

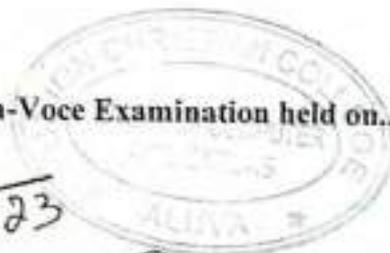
External Examiner 1

(Name & Signature)

**Joseph Paul**

External Examiner 2

(Name & Signature)



ALC/EKM/23 – 77/167

10 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Ms. Aneetta N V [Reg No. 213242210191]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed her project titled “*Women Safety*” using Android from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Anandu P A in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

**Allievo Learning Centre**

Abraham V. Thomas  
(HR Manager)



A Project Report  
On

**WORD RECOGNITION USING LIP READING**

*Submitted to the*

**Department of MCA**

*In partial fulfillment of the*

**MASTER OF COMPUTER APPLICATIONS**

Under the guidance of

**Ms. LEE JULIET GEORGE**

**Project Done by**

**LIYA C C**

Reg no: 213242210239



DEPARTMENT OF MCA

**UNION CHRISTIAN COLLEGE, ALUVA**

*August 2023*



Ernakulam,  
August 01, 2023.

FolioNo:000598

## Project Certificate

### To Whomsoever It may Concern

This is to certify that Ms.Liya CC (Reg.No.213242210239) MCA Final year student of *UC College, Aluva* has done project work in our company on "Word recognition using lip reading" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,

Authorized Signatory

**FLEMING Embedded and Software Solutions.**



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**NEONATAL PAIN DETECTION**

is a bonafide work done by

**SREELAKSHMI VIJAYAN**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

Mahatma Gandhi University, Kottayam

2021 – 2023

*S. Sherna Mohan*  
12/18/23

Ms. Sherna Mohan

Head of Department

*Lee Juliet George*  
11/18/23

Ms. Lee Juliet George

Project Guide

Submitted for the Viva-Voice Examination held on.....

*G. Anil Krishna*  
External Examiner 1

(Name & Signature)

*G. Anil Krishna*  
22/11/23



*Ambili K.G*  
*Ambili*  
23/11/23

External Examiner 2

(Name & Signature)

Ernakulam,  
August 01, 2023.

FolioNo:000600

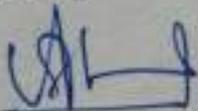
## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Ms.Sreelakshmi Vijayan** (Reg.No.213242210277) MCA Final year student of *UC College, Aluva* has done project work in our company on "Neonatal Pain Detection" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE

ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
**"MALAYALAM OFFENSIVE LANGUAGE IDENTIFICATION"**  
is a bonafide work done by  
**RAKESH P D**

*In partial fulfillment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University, Kottayam**

(2021-2023)

*Sherna Mohan*  
23/18/23  
**Mrs. Sherna Mohan**  
Head of the Department

*Surabhi P V*  
**Ms. Surabhi P V**  
Project Guide

Submitted for the Viva-Voce Examination held on 23-08-2023

*Joseph Paul*  
23/18/23  
**External Examiner 1**  
(Name & Signature)

*Pritha P Pillai*  
23/18/23  
**External Examiner 2**  
(Name & Signature)

*Joseph Paul*



Ernakulam,  
August 01, 2023.

FolioNo:000587

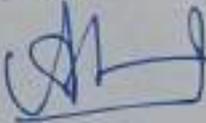
## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Mr.Rakesh P D** (Reg.No.213242210258) MCA Final year student of *UC College, Aluva* has done project work in our company on "Malayalam Offensive Language Identification - A Minimalistic Approach" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period his performance was good.

We wish him all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"EFFICIENT GROUP DATA SHARING IN CLOUD ENVIRONMENT USING HONEY  
ENCRYPTION "  
is a bonafide work done by  
HASNA T S

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

Head of the Department

Mrs. Sherna Mohan

Project Guide

Mrs. Surabhi P V

Submitted for the Viva-Voce Examination held on 22-08-23

External Examiner 1

(Name & Signature)

Joseph Paul  
27/8/23

External Examiner 2

(Name & Signature)

Anya P P 116  
27/8/23

Ernakulam,  
August 01, 2023.

FolioNo:000603

### Project Certificate

#### To Whomsoever It may Concern

This is to certify that **Ms.Hasna T S** (Reg.No.213242210223) MCA Final year student of *UC College, Aluva* has done project work in our company on "Efficient Group Data Sharing In Cloud Environment Using Honey Encryption" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
**HELMET DETECTION WITH DRIVER  
BEHAVIOUR ANALYSIS**  
is a bonafide work done by  
**Jiya Jagadeesh**

In partial fulfillment of the requirement for the Award of  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

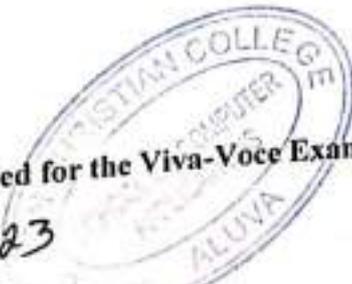
*Sherna*  
*16/8/23*  
Head of the Department  
Mrs. Sherna Mohan

*Surabhi P V*  
Project Guide  
Mrs. Surabhi P V

*Joseph Paul*  
*22/08/23*  
External Examiner 1

Submitted for the Viva-Voce Examination held on *22-08-2023*

*Asya P. Pillai*  
External Examiner 2





# CSEED

Centre for  
Skill Enhancement &  
Employability Development



An affiliate of National Council for Technology and Training  
An autonomous organization recognized by Govt of India - NC

INT/23/0638

04 August 2023

## CERTIFICATE

This is to certify that the below mentioned student from dept. of **Master of Computer Application, Union Christian College, Aluva** has successfully completed the **Project Training** from **18/04/23 to 27/07/23** organized by **Centre for Skill Enhancement & Employability Development (CSEED)** for the academic year 2022-2023. This Hands-on Training Program concentrated on '**Embedded System and Deep Learning**' based on the project topic '**Helmet Detection With Driver Behavior Analysis**'. As per our measurement, performance of the candidate was excellent during the training period.

Name

**JIYA JAGADEESH**

Register Number

**213242210228**



**DELNA DAVIS**

**MANAGER - CSEED**

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"FOOD RECIPE RECOGNITION"  
is a bonafide work done by  
Anandhu Vijayan

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

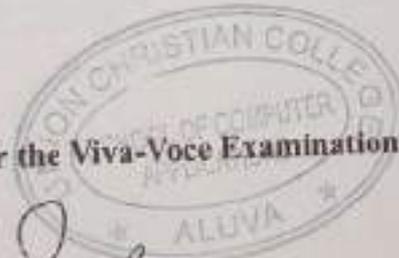
Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna Mohan*  
21/8/23  
Head of the Department  
Mrs. Sherna Mohan

*Thanu Sudeesh*  
21/8/23  
Project Guide  
Mrs. Thanu Sudeesh

Submitted for the Viva-Voce Examination held on 21/8/2023  
*Joseph Paul*  
21/8/23  
External Examiner 1  
*Asya P Pilla*  
21/8/2023  
External Examiner 2



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



CERTIFICATE

This is to certify that the project entitled "FOOD RECIPE RECOGNITION" has been successfully carried out by ANANDHU VIJAYAN (Reg. No:213242210189) in partial fulfillment of the Course Master of Computer Applications.



*[Signature]*  
16/8/23  
INTERNSHIP GUIDE  
Mrs. Thanu Sudeesh

*[Signature]*  
16/8/23  
HEAD OF THE DEPARTMENT  
Mrs. Sherna Mohan

Date: 21/8/2023

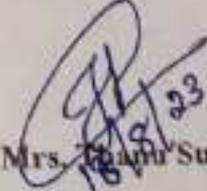
UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



CERTIFICATE

This is to certify that the project entitled "FOOD RECIPE RECOGNITION" has been successfully carried out by ANANDHU VIJAYAN (Reg no:213242210189) in partial fulfillment of the course Master of Computer Applications under my guidance .

Date: 21/8/2023

  
Mrs. Sudeesh  
INTERNAL GUIDE



## IGNOSI ENTERPRISES

G3B, Thejaswini, Technopark Campus, Thiruvananthapuram  
Kerala - 685581 | info@ignosi.in | www.ignosi.in  
Ph: 9447 094 230 | 8121 33x 393

# CERTIFICATE

## OF COMPLETION

This is to Certify that

*Anandhu Vijayan*

(Reg No: 213242210189) Masters in Computer Applications final year student of Union Christian College, Aluva has done project work in our company on "Food recipe recognition" under the guidance of the Project Manager, IGNOSI ENTERPRISES towards the partial fulfilment of the award of MCA during the period from June 2023 to July 2023. During this period his performance was good.

09 August, 2023



UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**"PET-CARE"**

is a bonafide work done by

**LIBIN SUNNY**

*In partial fulfilment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*Sherna*  
Ms. Sherna Mohan

Head of the Department

*Shine K George*  
Dr. Shine-K. George

Project Guide

Submitted for the Viva-Voce Examination held on...22.08.2023.

**External Examiner 1**

(Name & Signature)

*Gr. Anitha Krishnan*  
*GA*  
22/8/23

**External Examiner 2**

(Name & Signature)

*Ambika K-G*  
*Ambika*  
22/8/23

# CERTIFICATE



## SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
511, MC Rd, Thottumkalpedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8048065213

# CERTIFICATE

## OF COMPLETION

This is to Certify that

*Libin Sunny*

(Reg No : 213242210238) Masters in Computer Applications Student of Union Christian College, Aluva affiliated to MC University Kottayam has successfully completed the academic project entitled "Pet-Care" using Mobile Application Development using Flutter in our Institution

CERTIFICATE ID: SIG-2307-112  
30 July 2023



**AJIN MOHAN**  
DIRECTOR  
SIGNATURE RESOURCE HUB

# UNION CHRISTIAN COLLEGE

ALUVA, KERALA



## BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
-ZERO-SHOT HUMAN ACTIVITY RECOGNITION USING NON-VISUAL SENSORS"  
is a bonafide work done by  
JEEMOL JOJO K

*In partial fulfillment of the requirement for the Award of*  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna Mohan*  
Mrs. Sherna Mohan  
Head of the Department

*Ancy K Paul*  
Mrs. Ancy K Paul  
Project Guide

Submitted for the Viva-Voce Examination held on 21/08/2023

*Joseph Paul*  
External Examiner 1  
(Name & Signature)

*Anya P Pillai*  
External Examiner 2  
(Name & Signature)

Ernakulam,  
August 01, 2023.

FolioNo:000597

## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Ms.Jeemol Jojo K** (Reg.No.213242210224) MCA Final year student of *UC College, Aluva* has done project work in our company on "Zero-Shot Human Activity Recognition Using Non-Visual Sensors" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"AUTOMATIC COLORIZATION OF  
BLACK AND WHITE IMAGES"

is a bonafide work done by  
Jefna Joshy

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna*  
16/8/23

Mrs. Sherna Mohan  
Head of the Department

*Amrutha*

Ms. Amrutha Karthikeyan  
Project Guide

Submitted for the Viva-Voce Examination held on 22/8/2023.....

External Examiner 1

*Joseph Paul*  
22/8/23

External Examiner 2

*Abaya P. Pillai*  
22/8/23



An ISO 9001:2015 Certified Company



**August 8, 2023**

**TO WHOM SO EVER IT MAY CONCERN**

This is to certify that **JEFNA JOSHY** 4<sup>th</sup> semester **MCA** student of **UNION CHRISTIAN COLLEGE, ALUVA** has successfully completed a project titled “**AUTOMATIC COLORIZATION OF BLACK AND WHITE IMAGE USING PYTHON**” from our organization.

The duration of the project was for 4 months. The Project was incorporated in **PYTHON** and was implemented successfully.

Thanking you,

For **LCC Computer Education**

A handwritten signature in black ink, appearing to read 'Ramaswamy'.

**Ramaswamy**  
**Director**



**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled  
"FOOTBALL BETTING APP(MATCHDAYBET)"**

**is a bonafide work done by**

**JERIN JOY**

**In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**

*Sherna Mohan*  
26/8/23

**Ms. Sherna Mohan**

**Head of the Department**

*Surabhi P.V*

**Ms. Surabhi P.V**

**Project Guide**

**Submitted for the Viva-Voce Examination held on 22-08-2023**

*Joseph Paul*  
22/8/23

**External Examiner1**

**(Name & Signature)**

*Joseph Paul*

*Asya P. Pillai*  
20/8/23

**External Examiner2**

**(Name & Signature)**



## CERTIFICATE

This is to certify that **Mr. JERIN JOY. (Reg. No: 213242210226)** Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled **“FOOTBALL BETTING APP(MATCHDAYBET)”** in **PYTHON+ANDROID** under the guidance of our senior faculties towards the fulfillment of the award of **“Master of Computer Applications”** during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking.

**For RISS TECHNOLOGIES**

A handwritten signature in green ink that reads "Jerin Joy" with a horizontal line underneath.

Chief Executive Officer



UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

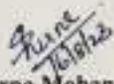
Certified that the Project Work entitled  
"SIGNATURE VERIFICATION SYSTEM"  
is a bonafide work done by  
Kiran T S

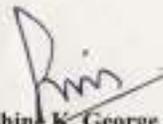
*In partial fulfilment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

2021-2023

  
Ms. Sherna Mohan  
Head of the Department

  
Dr. Shing K. George  
Project Guide



Submitted for the Viva-Voce Examination held on... 22-08-2023

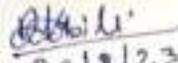
*External Examiner 1*

*(Name & Signature)*

G. Anitha Krishnan  
  
22/8/23

*External Examiner 2*

*(Name & Signature)*

Ambili K.G  
  
22/8/23

ALC/EKM/23 – 77/152

04 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Mr. Kiran T S [Reg No. 213242210233]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed his project titled "*Signature Verification System*" using Php and Python from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Akhil Vinayak in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"AI-BASED SALON BOOKING APPLICATION"

is a bonafide work done by  
KRISHNENDHU C M

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna Mohan*  
16/8/23

Ms. Sherna Mohan

Head of the Department

*Lee Juliet George*  
14/8/23

Ms. Lee Juliet George

Project Guide

Submitted for the Viva-Voce Examination held on ~~22-08-2023~~ 22/08/23



External Examiner1

(Name & Signature)

*G. Anitha Krishnan*  
*Gal*  
22/8/23

External Examiner2

Name & Signature)

*Ambili K.G*  
*Ambili*  
22/8/23



## CERTIFICATE

This is to certify that **Ms. KRISHNENDHU C M. (Reg. No: 213242210236)** Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled “**AI-BASED SALON BOOKING APPLICATION**” in **PYTHON+ANDROID** under the guidance of our senior faculties towards the fulfillment of the award of “Master of Computer Applications” during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking.

**For RISS TECHNOLOGIES**

A handwritten signature in green ink, appearing to read "Deborah M.", written over a horizontal line.

Chief Executive Officer



**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled**

**“Teeth Detection and Dental problem analysis using Deep learning and Image  
processing Techniques”**

**is a bonafide work done by**

**LAKSHMI K N**

***In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS***

**Degree From**

**Mahatma Gandhi University, Kottayam  
(2021-2023)**

*Sherna*  
*16/8/23*  
**Ms. SHERNA MOHAN**  
**Head of the Department**

*Thani*  
*16/8/23*  
**Ms. THANESUDHEESH**  
**Project Guide**

**Submitted for the Viva-Voce Examination held on 22-08-2023**

**External Examiner1**

*Gr. Anu the Krishnan*  
*22/8/23*



**External Examiner2**

*Ambili K G*  
*22/8/23*

*Ambili*  
*22/8/23*



### CERTIFICATE

This is to certify that Ms. LAKSHMI K N. (Reg. No: 213242210237) Master of Computer Applications IV semester student of UNION CHRISTIAN COLLEGE ALUVA affiliated to Mahatma Gandhi University, has done project work entitled "TEETH DETECTION AND DENTAL PROBLEM CLASSIFICATION USING DEEP LEARNING AND IMAGE PROCESSING TECHNIQUES" in PYTHON under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking.

For RISS TECHNOLOGIES

Chief Executive Officer



UNION CHRISTIAN COLLEGE ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

**BRAIN TUMOR DETECTION**

is a bonafide work done by

**KRISHNARCHANA K J**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna*  
*16/8/23*  
Head of the Department

Mrs. Sherna Mohan

Project Guide

*Surabhi*  
Mrs. Surabhi P V

Submitted for the Viva-Voce Examination held on *22/8/23*.....

*External Examiner 1*

(Name & Signature)

*Gr. Anitha Krishnan*  
*Ab*  
*22/8/23*

*External Examiner 2*

(Name & Signature)

*Ambili. K. G*  
*AKG*  
*22/8/23*

August 3, 2023

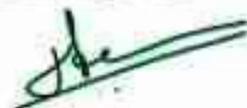
**To Whom So Ever It May Concern**

*This is to certify that Krishnarchana K J (Reg. No 213242210235), 4<sup>th</sup> semester MCA student of Union Christian College , Aluva has successfully completed her project entitled "Brain Tumor Detection" from our organization.*

*The project was incorporated in Python and was implemented successfully. During the project period her performance, hard work and skill set were found to be **GOOD**.*

*We wish her all the best for her bright future endeavors.*

**DIRECTOR**



**ALAN DANIEL**



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**WORD RECOGNITION USING LIP READING**

is a bonafide work done by

**LIYA C C**

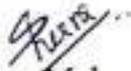
*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

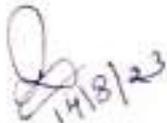
Degree From

Mahatma Gandhi University, Kottayam

2021 – 2023

  
Ms. Sherna Mohan

Head of Department

  
Ms. Lee Juliet George

Project Guide

Submitted for the Viva-Voice Examination held on... 22-8-2023

External Examiner1

(Name & Signature)

G. Anitha Krishnan  
G.K.  
22/8/23

External Examiner2

(Name & Signature)

Ambili. K.G  
AKS  
22/8/23



Ernakulam,  
August 01, 2023.

FolioNo:000598

## Project Certificate

### To Whomsoever It may Concern

This is to certify that Ms.Liya CC (Reg.No.213242210239) MCA Final year student of *UC College, Aluva* has done project work in our company on "Word recognition using lip reading" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,

Authorized Signatory

**FLEMING Embedded and Software Solutions.**



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**PRESENCE-PRO**

is a bonafide work done by

**NITHIN MANOJ**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University,**

**Kottayam 2021 – 2023**

*Sherna Mohan*  
*11/8/23*

**Ms. Sherna Mohan**

**Head of Department**

*Veenajose*

**Ms. Veenajose**

**Project Guide**

Submitted for the Viva-Voice Examination held on... *23/08/2023*

**External Examiner 1**

**(Name & Signature)**

*Joseph Paul*  
*23/8/23*  
**Joseph Paul.**

*Naya P. Pillai*  
*23/08/2023*

**External Examiner 2**

**(Name & Signature)**



# CERTIFICATE



## SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
SH 1, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE

## OF COMPLETION

This is to Certify that

*Nithin Manoj*

(Reg No : 213242210252) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**College Attendance Tracking App**" using Mobile Application Development using Flutter in our Institution

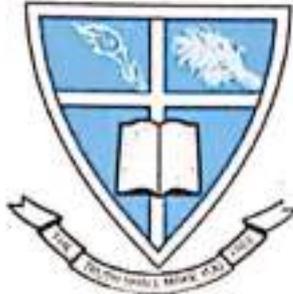
**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB



CERTIFICATE ID : SIG-2307-104  
30 July 2023

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
**“Yoga Pose Trainer”**  
is a bonafide work done by  
**EBIN REMILSON**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna  
14/07/23*

Mrs. Sherna Mohan

Head of the Department

*Amrutha*

Mrs. Amrutha Karthikeyan

Project Guide

Submitted for the Viva-Voce Examination held on... 22/8/2023

*Joseph Paul  
22/08/23*

External Examiner 1

(Name & Signature)

*Joseph Paul*



*Amrutha  
20/08/23*

Mrs. Amrutha Karthikeyan

External Examiner 2

(Name & Signature)

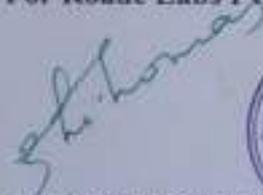
DATE: 11-8-2023

## PROJECT COMPLETION CERTIFICATE

This is to certify that, **Mr. EBIN REMILSON** (Reg No. 213242210216), Master of Computer Applications, IV semester student of **UNION CHRISTIAN COLLEGE ALUVA**, affiliated to Mahatma Gandhi University, has done project work entitled "Yoga Pose trainer" – Desktop application in Python, under the guidance of **Mr. Joel P Jacob**, towards the fulfilment of the award of "Master of Computer Applications", during the period of **April 11<sup>th</sup>, 2023, to August 11<sup>th</sup>, 2023, from Road Labs Pvt Ltd.**

He successfully completed the project, and during the period, he was methodical and hardworking.

For Road Labs Pvt Ltd



Authorized signatory  
Ms. Liz Thomas  
Chief Executive officer  
Road Labs Pvt Ltd.

For ROADELABS PVT LTD.

DIRECTOR

A Project Report  
On

**CROP RECOMMENDATION SYSTEM**

*Submitted to the*

**Department of MCA**

*In partial fulfillment of the*

**MASTER OF COMPUTER APPLICATIONS**

Under the guidance of

**Dr. LINCE RACHEL VARGHESE**

**Project Done by**

**MANASI S PILLAI**

Reg no: 213242210241



**DEPARTMENT OF MCA**

**UNION CHRISTIAN COLLEGE, ALUVA**

*August 2023*

**UNION CHRISTIAN COLLEGE**

**Aluva, Kerala, India**



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**CROP RECOMMENDATION SYSTEM**

is a bonafide work done by

**MANASI S PILLAI**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021 – 2023**

*Sherna  
14/8/23*

**Ms. SHERNA MOHAN**

**Head of Department**

**Dr. LINCE RACHEL VARGHESE**

*Lince*  
**Project Guide** 16/08/2023

Submitted for the Viva-Voice Examination held on... **22-08-2023**

**External Examiner1**

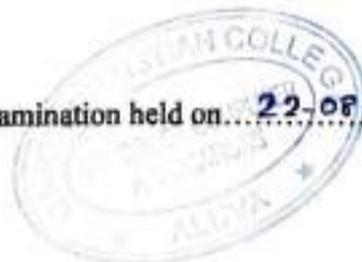
(Name & Signature)

*G. Anil Kumar  
22/8/23*

**External Examiner2**

(Name & Signature)

*Ambili*  
**22/8/23**





## CERTIFICATE

This is to certify that **Ms. MANASI S PILLAI** (Reg. No: 213242210241) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**CROP RECOMMENDATION SYSTEM**" in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking.

For **RISS TECHNOLOGIES**

Chief Executive Officer



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"Online Assignment plagiarism checker"  
is a bonafide work  
done by  
Manu KB  
Reg No:213242210243

*In partial fulfillment of the requirement for the Award of*  
**MASTER OF COMPUTER  
APPLICATIONS**

Degree From  
Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna*  
*16/8/23*  
Head of the Department

Mrs. Sherna Mohan

*Ancy K Paul*  
Project Guide

Mrs. Ancy K Paul

Submitted for the Viva-Voce Examination held on 22/8/2023

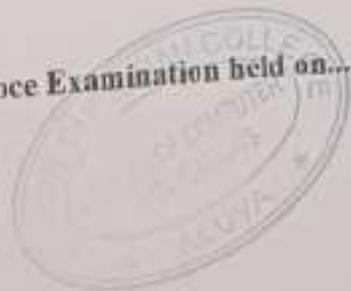
External Examiner 1

(Name & Signature)

*G. Anilhe Krishnan*  
*AB*  
*22/8/23*

External Examiner 2  
(Name & Signature)

*Ambili K.G*  
*Ambili*



Ernakulam,  
August 01, 2023.

FolioNo:000590

## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Mr.Manu KB** (Reg.No.213242210243) MCA Final year student of *UC College, Aluva* has done project work in our company on "Online Assignment Plagiarism Checking Using Data Mining and NLP" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period his performance was good.

We wish him all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE

ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
**"CALORIE TRACKER SYSTEM"**

is a bonafide work done

by

**MARIYA PAUL**

Reg No: 213242210245

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER  
APPLICATIONS**

**Degree From**

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna Mohan*  
Mrs. Sherna Mohan

Head of the Department

*Lee Juliet George*  
Mrs. Lee Juliet George

Project Guide

Submitted for the Viva-Voice Examination held on *22/08/2023*.....

*G. Anitha Krishnan*  
External Examiner 1

(Name & Signature)

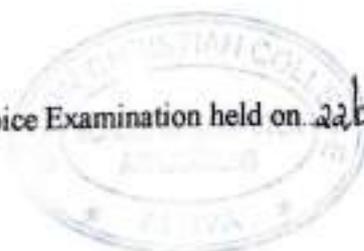
*GK*  
*22/8/23*

*Ambili.K.G*

External Examiner 2

(Name & Signature)

*22/8/23*





## SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
SH 1, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE OF COMPLETION

This is to Certify that

*Mariya Paul*

(Reg No : 213242210245) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**Calorie Tracker System**" in Machine Learning with Python in our Institution

CERTIFICATE ID : SIG-2307-108  
30 July 2023



**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"PREDICTING PRODUCT  
DEVELOPMENT TIME AND COST USING  
PRODUCTION DATA"  
is a bonafide work done by  
**Mariya Silpha**

In partial fulfillment of the requirement for the Award of  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

**Mahatma Gandhi University, Kottayam**

(2021-2023)



*Sherna*  
18/8/23

Head of the Department

Ms. Sherna Mohan

*Reenu*

Project Guide

Ms. Reenu Mariam Cherian

Submitted for the Viva-Voce Examination held on...22-08-2023.....

External Examiner 1

*G. Anil Krishna*

*GB*  
22/8/23

External Examiner 2

*Ambile. K. G*

*Ambile*  
22/08/2023



An ISO 9001:2015 Certified Company



August 8, 2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **MARIYA SILPHA** 4<sup>th</sup> semester **MCA** student of **UNION CHRISTIAN COLLEGE, ALUVA** has successfully completed a project titled "**PREDICTING PRODUCT DEVELOPMENT TIME AND COST USING PRODUCTION DATA**" from our organization.

The duration of the project was for 4 months. The Project was incorporated in **PYTHON** and was implemented successfully.

Thanking you,

For **LCC Computer Education**

A handwritten signature in black ink, appearing to read "Ramaswamy".

**Ramaswamy**  
Director



UNION CHRISTIAN COLLEGE

ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

“Roberta Lstm:-A Hybrid Model For Sentimental Analysis “

is a bonifide work done by

Mary Elizabeth Joseph

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

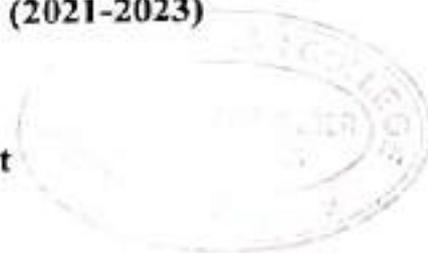
Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna Mohan*  
Mrs.Sherna Mohan

Head of the Department



*Sherna Mohan*  
Mrs.Sherna Mohan

Project Guide

Submitted for the Viva-Voce Examination held on...22/08/2023.....

External Examiner1

(Name & Signature)

Gr. Anitha Krishnan

*Anitha Krishnan*  
22/8/23

External Examiner2

(Name & Signature)

Ambili K.G

*Ambili K.G*  
22/8/23



**FLEMING**  
EMBEDDED AND SOFTWARE  
SOLUTIONS

Ernakulam,  
August 01, 2023.

FolioNo:000599

## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Ms.Mary Elizabeth Joseph** (Reg.No.213242210247) MCA Final year student of *UC College, Aluva* has done project work in our company on "ROBERTA-LSTM: A Hybrid Model For Sentiment Analysis" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,

Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE ALUVA



**BONAFIDE CERTIFICATE**

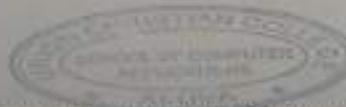
Certified that the Project Work entitled  
"ANTIFORENSIC"  
is a bonafide work done by  
Namitha Suresh

In partial fulfillment of the requirement for the Award of  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Shera*  
Head of the Department  
Mrs. Sherna Mohan



*Sikha B*  
Project Guide  
Mrs. Sikha B Kadayath

Submitted for the Viva-Voce Examination held on.....

External Examiner 1

*Joseph Paul*  
25/04/23

External Examiner 2

*P Pillai*

# CERTIFICATE

OF DECLARATION

This is to certify that

## NAMITHA SURESH

student of UC College Aluva, has joined Signature Resource Hub for the academic project named  
Antiforensic during the period 10th April 2023 to 30th June 2023

10 APRIL 2023



*Ajin Mohan*  
AJIN MOHAN  
Signature Resource Hub

**UNION CHRISTIAN COLLEGE**

**ALUVA, KERALA**



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled**

**GEO FENCING**

**is a bonafide work done by**

**AMRUTHA J RAMESH**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**

*21/08/23*  
**Head of the Department**

**Mrs. Sherna Mohan**

**Project Guide**

*Surabhi P V*  
**Mrs. Surabhi P V**

**Submitted for the Viva-Voce Examination held on 21/08/2023.....**

*21/8/23*  
**External Examiner1**  
**(Name & Signature)**

*Joseph Paul*

*21/8/2023*  
**External Examiner2**  
**(Name & Signature)**

*Asya P. Pillai*





Ernakulam,  
August 01, 2023.

FolioNo:000602

### Project Certificate

#### To Whomsoever It may Concern

This is to certify that Ms.Amrutha J Ramesh (Reg.No.213242210188) MCA Final year student of U C College, Aluva has done project work in our company on "Smart Geofencing: An Inventive Mobile Marketing Strategy" using ANDROID under the guidance of Project Manager, Fleming Embedded And Software Solutions, Ernakulam towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period her performance was good.

We wish her all the best.

Regards,

A handwritten signature in blue ink, appearing to be 'VJ', is written over a horizontal line.

Authorized Signatory

**FLEMING Embedded and Software Solutions.**



Fleming Embedded and Software Solutions LLP,  
Bank Road, Kaloor, Ernakulam, Kerala, India.  
Pin Code: 682 017, Tel: +91 484 4045252  
Email: helpdesk@fleming.co.in

[www.fleming.co.in](http://www.fleming.co.in)



**A Project Report**  
**On**  
**“PARKINSON DETECTION SYSTEM”**  
**Submitted to the**  
**Department of MCA**  
**In partial fulfilment of the**  
**MASTER OF COMPUTER APPLICATIONS**

**Under the guidance of**  
**Dr. Shine K George**

**Project Done by**  
**RITHIK SUNIL V**  
**Reg No:213242210259**



**DEPARTMENT OF MCA**  
**UNION CHRISTIAN COLLEGE**  
**ALUVA, KERALA**

**August 2023**

# CERTIFICATE



## CERTIFICATE

This is to certify that **Mr. RITHIK SUNIL V.** (Reg. No: 213242210259) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled **"PARKINSONS DETECTION SYSTEM"** in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking.

**For RISS TECHNOLOGIES**

A handwritten signature in green ink, appearing to read "Debin M".

Chief Executive Officer



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
**"LEARNING MANAGEMENT SYSTEM"**

is a bonafide work done by

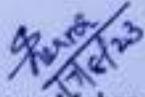
**Eric's Antony**

*In partial fulfillment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

  
Ms. Sherna Mohan

Head of the Department

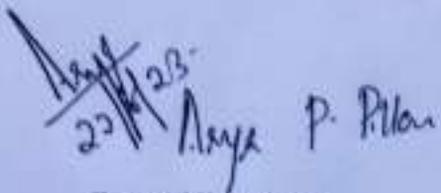
  
Dr. Shine K. George

Project Guide

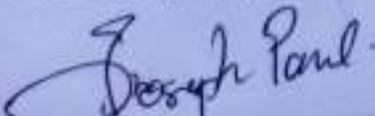
Submitted for the Viva-Voce Examination held on **22.08.2023**

  
External Examiner 1

(Name & Signature)

  
External Examiner 2

(Name & Signature)

  
Joseph Paul





## IGNOSI ENTERPRISES

G3B, Thejaswini, Technopark Campus, Thiruvananthapuram  
Kerala - 695581 | info@ignosi.in | www.ignosi.in  
Ph: 9447 094 230 | 8921 338 393

# CERTIFICATE

## OF COMPLETION

This is to Certify that

*Eric Anthony*

(Reg No: 213242210218) Masters in Computer Applications final year student of Union Christian College, Aluva has done project work in our company on "Learning management system" under the guidance of the Project Manager, IGNOSI ENTERPRISES towards the partial fulfillment of the award of MCA during the period from June 2023 to July 2023. During this period his performance was good.

09 August, 2023



UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**“SECURE FILE STORAGE ON USING HYBRID CRYPTOGRAPHY”**

Is a bonafide work done by

**SNEHA SURESH**

In partial fulfillment of the requirement for the Award of

**MASTER OF COMPUTER APPLICATIONS**

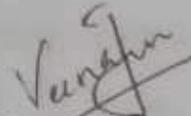
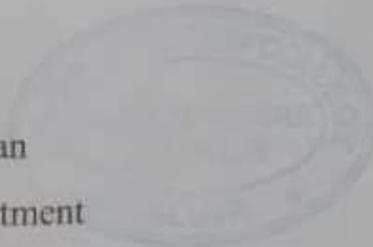
**Degree From**

Mahatma Gandhi University, Kottayam

**2021-2023**

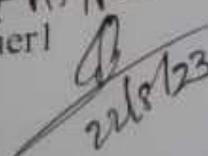


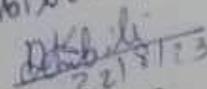
Ms. Sherna Mohan  
Head of the Department



Ms. Veena Jose  
Project Guide

Submitted for the Viva-Voce Examination held on 22-08-2023.....

G. Anitha Krishnan  
External Examiner 1  
  
22/8/23

Ambili. K. G  
  
22/8/23  
External Examiner 2

ALC/EKM/23 – 77/157

04 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Ms. Sneha Suresh [Reg No. 213242210272]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed her project titled “*Secure File Storage on Cloud using Hybrid Cryptography*” using Python and Django from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Roshan Jose in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**  
Certified that the Project Work entitled  
"FLIGHT TICKET PRICE PREDICTION"  
is a bonafide work done by  
Sruthy E S

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna Mohan*  
16/8/23  
Head of the Department  
Mrs. Sherna Mohan

*Sherna Mohan*  
18/8/23  
Project Guide  
Mrs. Sherna Mohan

Submitted for the Viva-Voce Examination held on.....23/8/2023.....

*G. Anil Krishna*  
External Examiner 1

*G*  
23/8/23

*Ambili*  
External Examiner 2

*Ambili*  
23/8/23



## CERTIFICATE

This is to certify that **Ms. SRUTHY E S. (Reg. No: 213242210281)** Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**FLIGHT TICKET PRICE PREDICTION**" in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023.

She successfully completed the project and during the period she was methodical and hardworking.

**For RISS TECHNOLOGIES**

Chief Executive Officer



UNION CHRISTIAN COLLEGE, ALUVA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**“Mentor”**

is a bonafide work done by

**Arpitha K Thomas**

*In partial fulfilment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

Mahatma Gandhi University, Kottayam

(2021-2023)

**Dr. Shine K George**

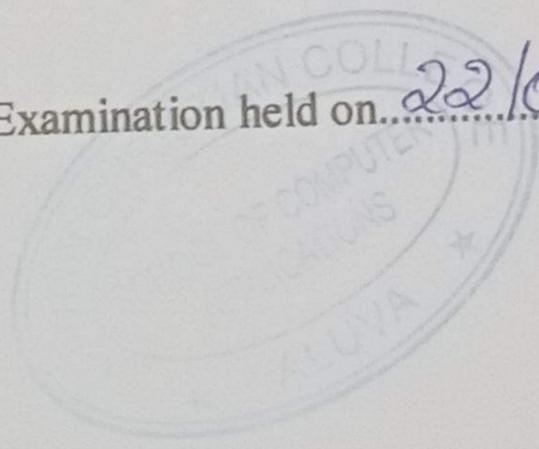
**Project Guide**

*Shirne  
22/8/23*

**Ms. Sherna Mohan**

**Head of the Department**

Submitted for the Viva-Voce Examination held on 22/08/2023



*G. Anil Mohan Krishnan*

**External Examiner 1**

**(Name & Signature)**

*GK  
22/8/23*

*Ambirli K. S  
Ambirli  
22/08/23*

**External Examiner 2**

**(Name & Signature)**

# CERTIFICATE



## CERTIFICATE

This is to certify that **Ms. ARPITHA K THOMAS**. (Reg. No: 213242210202) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**MENTOR**" in **PYTHON+ANDROID** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking.

For **RISS TECHNOLOGIES**

A handwritten signature in green ink, appearing to read "Deborah M".

Chief Executive Officer



UNION CHRISTIAN COLLEGE, ALUVA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"TECHRELICS"  
is a bonafide work done by  
EISHAL CYRIL

*In partial fulfilment of the requirement for the Award of*  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam

2021-2023

Head of the Department

Ms. Sherna Mohan



Project Guide

Ms. Reenu Mariam Cherian

Submitted for the Viva-Voce Examination held on 21/08/2023

External Examiner1

(Name & Signature)

Joseph Paul

External Examiner2

(Name & Signature)

20/08/23 Axya P Pillai



## SIGNATURE RESOURCE HUB

Opp. Bharat Petrol Pump, Aramanapady, Near Post Office Junction,  
SH 1, MC Rd, Thottumkalpeedika, Muvattupuzha, Kerala 686661  
signatureresourcehub@gmail.com +91 8848065213

# CERTIFICATE OF COMPLETION

This is to Certify that

*Eishal Cyril*

(Reg No : 213242210217) Masters in Computer Applications **Student of Union Christian College, Aluva affiliated** to MG University Kottayam has successfully completed the academic project entitled "**Techrelics - Antique Shop App**" using Mobile Application Development using Flutter in our Institution

CERTIFICATE ID : SIG-2307-117  
30 July 2023



**AJIN MOHAN**

DIRECTOR  
SIGNATURE RESOURCE HUB

**A Project Report**

**On**

**“IMAGE STORY TELLER”**

**Submitted to the**

**Department of MCA**

**In partial fulfilment to the**

**MASTER OF COMPUTER APPLICATIONS**

**Under the guidance of**

**Ms. SHERNA MOHAN**

**Project Done by**

**FERNANDO M M**

**Reg No: 213242210220**



**DEPARTMENT OF MCA**

**UNION CHRISTIAN COLLEGE, ALUVA**

**August 2023**

# CERTIFICATE

**Allievo Learning Centre** Excellence in,  
Embedded System | VLSI | DIP | DSP | Basic Electronics | PHP | Java | Android | NS2

---

ALC/EKM/23 – 77/123

27 July, 2023

## TO WHOM IT MAY CONCERN

This is to certify that *Mr. Fernando M M (Reg No: 213242210220)* of *Union Christian College, Aluva* has been associated with our firm *Allievo Learning Centre, Palarivattom* from 25/05/2023 to 27/07/2023 (Excluding Saturdays, Sundays, Public holidays and College Working Days). He has maintained 90% attendance during his project work. This letter also certifies that he joined the organisation as a part of his academic project '*Image Story Teller*' under the guidance of Miss. Anju Sasi.

This certification is issued to *Mr. Fernando M M* upon his request for any legal purposes it can serve.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**CROWD MONITORING SYSTEM**

is a bonafide work done by

**APARNA RAMESH**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**



*Sherna*  
*7/18/23*  
Ms. Sherna Mohan

Head of Department

Dr. Lince Rachel Varghese

*DR Vargh*  
Project Guide 11/08/2023

Submitted for the Viva-Voice Examination held on. 22/8/2023

External Examiner1

(Name & Signature)

*Joseph Paul*  
*22/8/23*  
Joseph Paul.

*Asya P Pillai*  
*22/8/23*  
Asya P Pillai  
External Examiner2

(Name & Signature)

ALC/EKM/23 – 77/168

10 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Ms. Aparna Ramesh [Reg No. 213242210199]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed her project titled *“Crowd Monitoring System”* using Python and Machine Learning from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Akhil Vinayak in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled**

**"THIRDEYE"**

**is a bonafide work done by**

**JOJO ELDHOSE**

**In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**



*Sherna Mohan*  
14/8/23

**Ms. Sherna Mohan**

**Head of the Department**

*Lee Juliet George*  
14/8/23

**Ms. Lee Juliet George**

**Project Guide**

**Submitted for the Viva-Voce Examination held on... 22/08/2023**

*Joseph Pane*  
22/8/23

**External Examiner1**

**(Name & Signature)**

*Joseph Pane*

*Amy P Pillai*  
22/08/23

**External Examiner2**

**(Name & Signature)**

DATE: 11-8-2023

## PROJECT COMPLETION CERTIFICATE

This is to certify that, **Mr. JOJO ELDHOSE** (Reg No. 213242210230), Master of Computer Applications, IV semester student of **UNION CHRISTIAN COLLEGE ALUVA**, affiliated to Mahatma Gandhi University, has done project work entitled "**Third Eye**" – **Web application in Python flask**, under the guidance of **Mr. Joel P Jacob**, towards the fulfillment of the award of "Master of Computer Applications", during the period of **April 10<sup>th</sup>, 2023, to August 11<sup>th</sup>, 2023, from Roade Labs Pvt Ltd.**

He successfully completed the project, and during the period, he was methodical and hardworking.

For Roade Labs Pvt.Ltd



Authorized signatory  
Ms. Liz Thomas  
Chief Executive officer  
Roade Labs Pvt Ltd.

For ROADELABS PVT LTD,

CIOR

UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"REAL TIME MOCK INTERVIEW USING DEEP LEARNING"

is a bonafide work done by

R LAKSHMY

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam

(2021-2023)

*Sherna*  
16/8/23  
Ms. Sherna Mohan  
Head of the Department



*R Varghese* 14/08/2023  
DR. Lince Rachel Varghese  
Project Guide

Submitted for the Viva-Voce Examination held on.....23/8/2023

*Joseph Paul*  
23/8/23  
External Examiner 1

*Asya P Pillai*  
23/08/23  
External Examiner 2

*Joseph Paul*



## CERTIFICATE

This is to certify that **Ms. R LAKSHMY.** (Reg. No: 213242210255) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled **“REAL TIME MOCK INTERVIEW USING DEEP LARNING”** in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of “Master of Computer Applications” during the period of May 2023 to August 2023

She successfully completed the project and during the period she was methodical and hardworking.

**For RISS TECHNOLOGIES**

A handwritten signature in green ink, appearing to read "Deborah.M".

Chief Executive Officer



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled  
"DIABETIC RETINOPATHY DETECTION USING DEEP LEARNING"  
is a bonafide work done by  
RAFNA BACKER

In partial fulfillment of the requirement for the Award of  
MASTER OF COMPUTER APPLICATIONS

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Sherna Mohan*  
25/08/23

Ms. Sherna Mohan

Head of the Department

*Sherna Mohan*  
25/08/23

Ms. Sherna Mohan

Project Guide

Submitted for the Viva-Voce Examination held on 25/08/2023

*Joseph Paul*  
25/08/23

External Examiner 1

(Name & Signature)

*Joseph Paul*

*Aaya P Pillai*  
25/08/23

External Examiner 2

(Name & Signature)

# CERTIFICATE



An ISO 9001:2015 Certified Company



August 8, 2023

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that **RAFNA BACKER** 4<sup>th</sup> semester **MCA** student of **UNION CHRISTIAN COLLEGE, ALUVA** has successfully completed a project titled "**DIABECTIC RETINOPATHY DETECTION USING DEEP LEARNING**" from our organization.

The duration of the project was for 4 months. The Project was incorporated in **PYTHON** and was implemented successfully.

Thanking you,

For **LCC Computer Education**

A handwritten signature in black ink, appearing to read 'Ramaswamy'.

**Ramaswamy**  
**Director**



A Project Report  
On

**FIT AND MATCH**

*Submitted to the*

**Department of MCA**

*In partial fulfillment of the*

**MASTER OF COMPUTER APPLICATIONS**

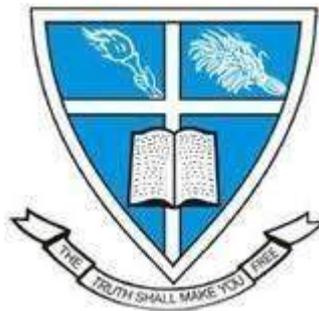
Under the guidance of

**Ms. LEE JULIET GEORGE**

**Project Done by**

**RAIMAH RAHMATH**

Reg no: 213242210257



DEPARTMENT OF MCA

**UNION CHRISTIAN COLLEGE, ALUVA**

*August 2023*

UNION CHRISTIAN COLLEGE

Aluva, Kerala, India



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

**FIT AND MATCH**

is a bonafide work done by

**RAIMAH RAHMATH**

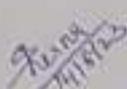
*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam

2021 – 2023

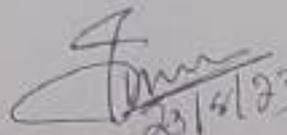
  
Ms. Sherna Mohan

Head of Department

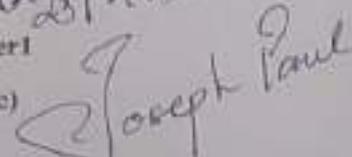
  
Ms. Lee Juliet George

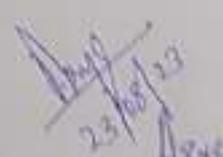
Project Guide

Submitted for the Viva-Voice Examination held on: 23/08/2023

  
External Examiner 1

(Name & Signature)

  
Joseph Paul

  
External Examiner 2

(Name & Signature)

10 August 2023

---

Orion India Systems Pvt. Ltd.  
105, Lulu Cyber Tower 1  
Lulu Tech Park, Infopark PO  
Kakkanad, Kochi - 682 042  
India  
CIN : U72200MH2000PTC199079

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T +91 (0)484-6616100  
info@orioninc.com

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orioninc.com

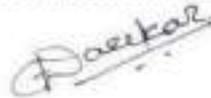
### Certificate

This is to certify that Raimah Rahmath (Reg No : 213242210257) Masters in Computer Applications Student of Union Christian College, Aluva affiliated to MG University Kottayam has successfully completed the academic project entitled "Fit and Match" using C#, ASP.NET MVC and SQL Server under the guidance of Vignesh Duraisamy.

We wish her success in her future endeavors.

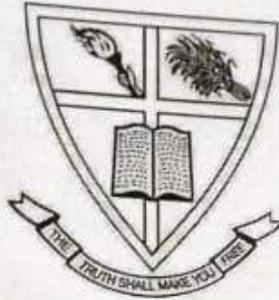
With warm regards,

**For Orion India Systems Pvt. Ltd**



**Aditya Darekar**  
**Manager – Human Resources**

UNION CHRISTIAN COLLEGE ALUVA



**BONAFIDE CERTIFICATE**

Certified that the project work entitled

**JOB RECOMMENDATION SYSTEM**

Is a bonafide work done by

**SAFA P B**

*In partial fulfillment of the requirement for the award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**2021-2023**

*23/8/23*

Ms. Sherna Mohan

Head of Department

Submitted for the Viva-Voice Examination held on 23-08-2023

External Examiner

Name:

Signature:

*Joseph Paul*  
23/8/23

*Ancy K Paul*

Ms. Ancy K Paul

Project Guide

*23/08/23* Aya P Pillan

External Examiner2

Name:

Signature:

*Aya P Pillan*  
*Ayp*



August 3, 2023

To Whom So Ever It May Concern

*This is to certify that Safa P B (Reg. No 213242210262), 4<sup>th</sup> semester MCA student of Union Christian College , Aluva has successfully completed her project entitled "Job Recommendation System" from our organization.*

*The project was incorporated in Python and was implemented successfully. During the project period her performance, hard work and skill set were found to be **GOOD**.*

*We wish her all the best for her bright future endeavors.*

DIRECTOR



ALAN DANIEL



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"PARKINSON DETECTION SYSTEM"  
is a bonafide work done by

**RITHIK SUNIL V**

*In partial fulfilment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

Degree From

Mahatma Gandhi University, Kottayam  
(2021-2023)

*Ms. Sherna Mohan  
18/8/23*

Ms. Sherna Mohan  
Head of the Department

Dr. Shipe K George  
Project Guide

Submitted for the Viva-Voce Examination held on 23/08/2023

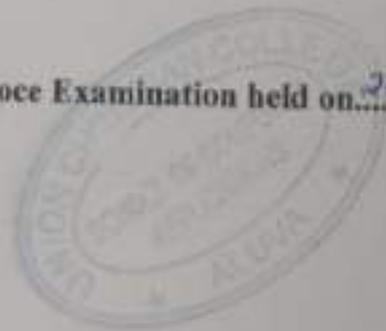
*Joseph Paul  
23/8/23*

External Examiner 1  
(Name & Signature)

*Joseph Paul*

*Arya P Pillai  
23/8/23*

External Examiner 2  
(Name & Signature)



## CERTIFICATE



### CERTIFICATE

This is to certify that **Mr. RITHIK SUNIL V.** (Reg. No: 213242210259) Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled "**PARKINSONS DETECTION SYSTEM**" in **PYTHON** under the guidance of our senior faculties towards the fulfillment of the award of "Master of Computer Applications" during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking.

For **RISS TECHNOLOGIES**

A handwritten signature in blue ink, appearing to read "Debin M".

Chief Executive Officer



**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**



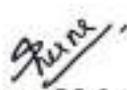
**BONAFIDE CERTIFICATE**

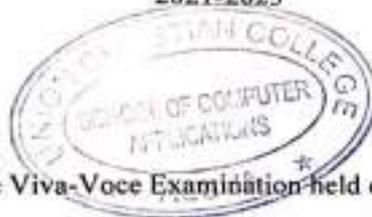
Certified that the Project Work entitled  
"PHISHHAVEN-AN EFFICIENT REAL-TIME AI PHISHING URLs DETECTION SYSTEM"  
is a bonafide work done by

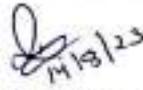
**ROMIN SKARIAH MAMMAN**

*In partial fulfillment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

Degree From  
Mahatma Gandhi University, Kottayam  
2021-2023

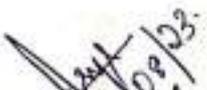
  
**Ms. Sherna Mohan**  
Head of the Department



  
**Ms. Lee Juliet George**  
Project Guide

Submitted for the Viva-Voce Examination held on... 23/08/2023

  
**Joseph Paul**  
External Examiner 1

  
**Axya P. Pillai**  
External Examiner 2



Ernakulam,  
August 01, 2023.

FolioNo:000585

## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Mr.Romin Skariah Mamman** (Reg.No.213242210261) MCA Final year student of *UC College, Aluva* has done project work in our company on "PhishHaven - An Efficient Real-Time AI Phishing URLs Detection System" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period his performance was good.

We wish him all the best.

Regards,

A handwritten signature in blue ink, appearing to be 'R. Skariah Mamman', is written over a horizontal line.

Authorized Signatory

**FLEMING Embedded and Software Solutions.**



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**SHIP CLASSIFICATION FROM SAR IMAGE USING DEEP LEARNING**

is a bonafide work done by

**C S SRISAI**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

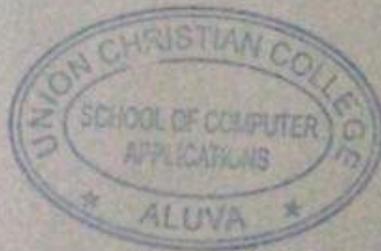
**Mahatma Gandhi University, Kottayam**

**2021 – 2023**

*Sherna Mohan*  
21/8/23

Ms. Sherna Mohan

Head of Department



*Ancy K Paul*  
Ms. Ancy K Paul

Project Guide

Submitted for the Viva-Voice Examination held on...*21/8/23*...

**External Examiner 1**

(Name & Signature)

*Gr. Anitha Engilmeey*  
*21/8/23*

*Ambulath, K. G.*  
*21/8/2023*  
External Examiner 2  
(Name & Signature)

# CERTIFICATE



Ernakulam,  
August 01, 2023.

FolioNo:000586

## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Mr.CS Srisai** (Reg No.213242210209) MCA Final year student of *UC College, Aluva* has done project work in our company on "Ship Classification from SAR images using Deep learning" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period his performance was good.

We wish him all the best.

Regards,

Authorized Signatory

**FLEMING** Embedded and Software Solutions.



UNION CHRISTIAN COLLEGE ALUVA, KERALA



**BONAFIDE CERTIFICATE**

**Certified that the Project Work entitled**

**“METRO CONNECT”**

**is a bonafide work done by**

**SANDRA P B**

*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**

*Resing*  
*24/8/23*  
**Mrs. Sherna Mohan**

*Reenu*  
*23/8/23*  
**Mrs. Reenu Mariam Cherian**

**Head of the Department**

**Project Guide**



Submitted for the Viva-Voce Examination held on 23/08/2023

**External Examiner 1**

**(Name & Signature)**

*Joseph Paul*  
*23/8/23*

*Joseph Paul*

**External Examiner 2**

**(Name & Signature)**

*Amya P Rileni*  
*23/08/23*

**External Examiner 2**

**(Name & Signature)**

ALC/EKM/23 – 77/171

10 August, 2023

**TO WHOM IT MAY CONCERN**

This is to certify that *Ms. Sandra P B [Reg No. 213242210263]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed her project titled “*Metro Connect*” using Django from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Ms. Sreelekshmi M in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

**Allievo Learning Centre**

Abraham V. Thomas  
(HR Manager)



UNION CHRISTIAN COLLEGE ALUVA, KERALA



BONAFIDE CERTIFICATE

Certified that the Project Work entitled

"TOLL COLLECTION AND VEHICLE TRACKING USING GPS"

is a bonafide work done by

SANJU SANTHOSH

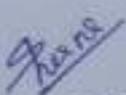
*In partial fulfillment of the requirement for the Award of*

MASTER OF COMPUTER APPLICATIONS

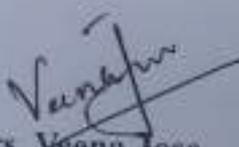
Degree From

Mahatma Gandhi University, Kottayam

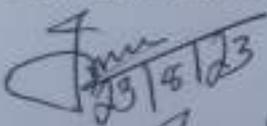
(2021-2023)

  
Mrs. Sherna Mohan  
Head of the Department

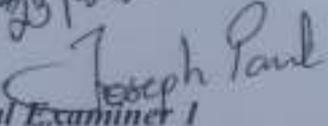


  
Mrs. Veena Jose  
Project Guide

Submitted for the Viva-Voce Examination held on...23/08/2023

  
External Examiner 1

(Name & Signature)

  
External Examiner 2

(Name & Signature)

**TO WHOM IT MAY CONCERN**

This is to certify that *Mr. Sanju Santhosh [Reg No. 213242210264]* fourth semester MCA student of *Union Christian College, Aluva* have successfully completed his project titled "*Toll Collection and Vehicle Tracking using GPS*" using Android from *25 May, 2023 to 27 July, 2023*.

The project was done under the guidance of Mr. Anandu P A in partial fulfillment of the requirements for the award of the degree of, *Master of Computer Applications*.

Yours Truly,

For,

Allievo Learning Centre

Abraham V. Thomas  
(HR Manager)



**UNION CHRISTIAN COLLEGE**

Aluva, Kerala, India



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**AN ADVANCED METHOD FOR DETECTION OF BOTNET TRAFFIC USING INTRUSION DETECTION SYSTEM**

is a bonafide work done by

**SHERIN CHACKO**

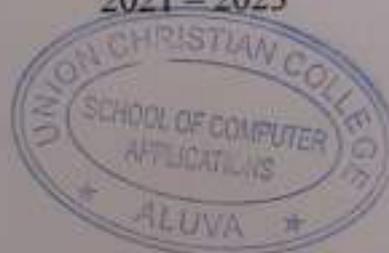
*In partial fulfillment of the requirement for the Award of*

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

Mahatma Gandhi University, Kottayam

2021 – 2023



*Sherna*  
12/8/23  
Ms. Sherna Mohan

Head of Department

*Ancy K Paul*  
Ms. Ancy K Paul

Project Guide

Submitted for the Viva-Voice Examination held on... 23/8/23

External Examiner1

(Name & Signature)

*Joseph Paul*  
23/8/23  
Joseph Paul

*Anya P Pillai*  
23/8/23  
Anya P Pillai

(Name & Signature)

Ernakulam,  
August 01, 2023.

FolioNo:000584

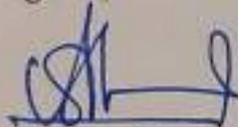
## Project Certificate

### To Whomsoever It may Concern

This is to certify that **Mr.Sherin Chacko** (Reg.No.213242210267) MCA Final year student of *UC College, Aluva* has done project work in our company on "An advanced method for detection of botnet traffic using Intrusion Detection System" using **PYTHON** under the guidance of Project Manager, *Fleming Embedded And Software Solutions, Ernakulam* towards the partial fulfillment of the award of MCA during the period from March 2023 to July 2023. During this period his performance was good.

We wish him all the best.

Regards,



Authorized Signatory

**FLEMING Embedded and Software Solutions.**



UNION CHRISTIAN COLLEGE  
ALUVA, KERALA



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled  
"TRIBAL WELFARE SYSTEM"

is a bonafide work done by  
**SHILJITH K SADANANDAN**

*In partial fulfillment of the requirement for the Award of*  
**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**  
**(2021-2023)**

*gms*  
*18/8/23*  
Ms. Sherna Mohan  
Head of the Department



*Surabhi P V*  
Ms. Surabhi P V  
Project Guide

Submitted for the Viva-Voce Examination held on...*22-08-2023*...

*Joseph Paul*  
*23/8/23*  
External Examiner1

*Joseph Paul*

*Anya P. Pillai*  
*23/08/23*  
External Examiner2



## CERTIFICATE

This is to certify that **Mr. SHILJITH K SADANANDAN. (Reg. No: 213242210268)** Master of Computer Applications IV semester student of **UNION CHRISTIAN COLLEGE ALUVA** affiliated to Mahatma Gandhi University, has done project work entitled “**TRIBAL WELFARE SYSTEM**” in **C#** under the guidance of our senior faculties towards the fulfillment of the award of “Master of Computer Applications” during the period of May 2023 to August 2023

He successfully completed the project and during the period he was methodical and hardworking.

**For RISS TECHNOLOGIES**

A handwritten signature in green ink, appearing to read "Deborah.M", written over a horizontal line.

Chief Executive Officer



# CERTIFICATE



An ISO 9001:2015 Certified Company



August 8, 2023

## TO WHOM SO EVER IT MAY CONCERN

This is to certify that **SIDHARTH B** 4<sup>th</sup> semester **MCA** student of **UNION CHRISTIAN COLLEGE, ALUVA** has successfully completed a project titled "**HAIR MANAGEMENT SYSTEM**" from our organization.

The duration of the project was for 4 months. The Project was incorporated in **PYTHON** and was implemented successfully.

Thanking you,

For **LCC Computer Education**

A handwritten signature in black ink, appearing to read "Ramaswamy".

**Ramaswamy**  
Director



**UNION CHRISTIAN COLLEGE  
ALUVA, KERALA**



**BONAFIDE CERTIFICATE**

Certified that the Project Work entitled

**“HAIR MANAGEMENT SYSTEM”**

is a bonafide work done by

**SIDHARTH B**

In partial fulfillment of the requirement for the Award of

**MASTER OF COMPUTER APPLICATIONS**

**Degree From**

**Mahatma Gandhi University, Kottayam**

**(2021-2023)**



*Sherna Mohan*  
23/8/23  
**Ms. Sherna Mohan**

**Head of the Department**

*Veena Jose*  
**Ms. Veena Jose**

**Project Guide**

Submitted for the Viva-Voce Examination held on... 23/08/2023

*Joseph Paul*  
23/8/23  
**External Examiner 1**

**Name & Signature)**

*Joseph Paul*

*Asya P*  
23/08/23  
**External Examiner 2**

**Name & Signature)**