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DEPARTMENT OF POST- GRADUATE STUDIES AND
RESEARCH IN COMPUTER SCIENCE
MANGALAGANGOTHRI-574 199

CERTIFICATE

This is to certify that the project work entitled "AN EFFICIENT MOVIE RECOMMENDATION ENGINE BASED ON COLLABORATIVE FILTERING USING A DEEP LEARNING APPROACH" has been successfully carried out in the Department Post-Graduate Studies and Research in Computer Science by **Mr. Abubakr Yahia Ahmed Mohammed Al Ashmali (Reg.No:193323701)**, a student of fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. Doreswamy**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of Degree in Master of Science (Computer Science) by **Mangalore University** during the academic year **2020-2021**.

Internal Guide

Internal Examiner

Submitted for the Viva-Voce Examination held on _____

Chairperson

Department of Post-Graduate Studies and
Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

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CERTIFICATE

This is to certify that the project work entitled "IMPROVEMENT OF WEB SECURITY USING PASSWORD AUTHENTICATION" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by Ms. Alisa Chandala (Reg.No:193323702), a student of fourth semester MSC (Master of Computer Science), under the supervision and guidance of Dr. MANJIAH D.H., Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of Degree in Master of Computer Science by Mangalore University during the academic year 2020-2021.

Internal Guide

Chairperson

Department of Post-Graduate Studies and
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Mangalore University, Mangalagangothri - 574 199
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[Signature]

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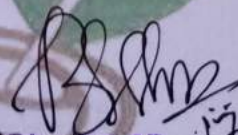
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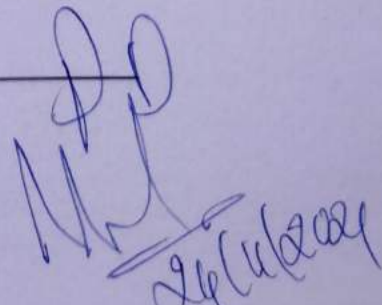
This is to certify that the project work entitled "**Deep Learning Method for Malaria Parasite Detection**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **ANANYA SHETTY (Reg. No: 193323703)**, student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of **Dr. B. H. SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science by Mangalore University** during the academic year **2020-2021**.


Internal Guide 15.11.2021

Internal Examiner


Chairperson 17.11.2021
Department of Post-Graduate Studies and
Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA
External Examiner

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Secretary

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MANGALAGANGOTTHRI-574 199

CERTIFICATE

This is to certify that the project work entitled "Sentiment Analysis of Thai Text" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **ANOULACK HOMSANITH (Reg.No. : 193323704)**, a student of fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of Degree in **Master of Science (Computer Science)** by Mangalore University during academic year 2020-21.

H. L. Shashirekha
Internal Guide 15/11/21

Internal Examiner

Sharmila
15/11/2021
Dr. Sharmila.

[Signature] 17-11-2021
Chairperson
Department of Post-Graduate Studies and
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Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA
External Examiner

[Signature] 18/11/2021

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26/11/2021

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AND

RESEARCH IN COMPUTER SCIENCE

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project work entitled “Covid Health Monitoring And Guide” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by (Reg.No: 193323705), a student of fourth semester M.Sc (Computer Science), under the supervision and guidance of **Mr.Prakasha M**, Assistant Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year 2020-21.

Handwritten signature of the Internal Guide.

Internal Guide

Handwritten signature of the Chairman, dated 18.11.2021.

Department of Post-Graduate Studies and
Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

External Examiner

Internal Examiner

Handwritten signature of the Internal Examiner, Dr. Sharmila.

(Dr. Sharmila) 18.11.2021

Submitted for the Viva-Voce examination held on

18.11.2021

Handwritten signature of the External Examiner, dated 18.11.2021.

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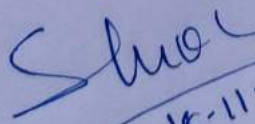
CERTIFICATE

This is to certify that the project work entitled “Malicious URL Prediction using Machine Learning” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Mr. ASHWEK.P.KALGUTKAR (Reg.No:193323706)**, a student of fourth semester MSc (Master of Computer Science), under the supervision and guidance of **Dr. Doreswamy, Professor**, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of Degree in Master of Computer Science by **Mangalore University** during the academic year **2020-2021**.


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Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
KARNATAKA, INDIA


15-11-2021
Dr. Sharmila

Submitted for the Viva-Voce Examination held on


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This is to certify that the project work entitled "DATA SECURITY MODEL FOR CLOUD COMPUTING" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by Ms. AYSHATHUL BASHARIYA MONACO (Reg. No: 193323707), student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of Dr. MANJIAH D.H, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of Master of Computer Science by Mangalore University during the academic year 2020-2021.

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Mangalore University, Mangalagangothri - 574 199
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This is to certify that the project work entitled **“Rehoboth Driving School”** has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Ms. Dashwitha Monteiro (Reg. No: 193323708)**, student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of **Dr. B. H. SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year **2020-2021**.

[Signature] 15.11.2021
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Chairperson
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Mangalore University, Mangalagangothri - 574 199
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External Examiner

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9/11/2021

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CERTIFICATE

This is to certify that the project work entitled “**Morphological Analyzer for Kannada Verb Words Using Machine Learning Approach**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **DEEKSHA (Reg.No: 193323709)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfillment of the requirement for the award of **Master of Computer Science** by **Mangalore University** during academic-year 2020-21.

H. L. Shashirekha
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H. L. Shashirekha
17.11.2021

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17.11.2021

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CERTIFICATE

This is to certify that the project work entitled "**Food monitoring and spoilage detection using IOT**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Ms. DEVIKA Y (Reg.No:193323710)**, student of Fourth semester MSc (Master of Computer Science), under the supervision and guidance of **Mr. PRAKASHA M**, Assistant Professor, Department of Post Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2020-2021**.

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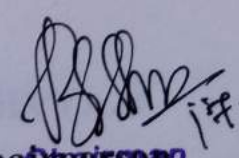
This is to certify that the project work entitled “COVID-19 INFECTION DETECTION USING DEEP LEARNING MODEL” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by DIVYA. B (Reg. No: 193323711), student of fourth semester M.Sc. in Computer Science, under supervision and guidance of Dr. DORESWAMY, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University.

The dissertation is partial fulfillment of the requirements for the award of Master of Computer Science by Mangalore University during the academic year 2020-21.

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This is to certify that the project work entitled "**Facial Emotion Detection**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **GAGANA B (Reg.No: 193323712)**, a student of fourth semester M.Sc (Computer Science), under the supervision and guidance of **Dr.Manjaiah D H**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year 2019-21.

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This is to certify that the project work entitled “**Real Time Face Mask Detection**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Ms. H SUSHMA (Reg.No:193323713)**, student of Fourth semester MSc (Master of Computer Science), under the supervision and guidance of **Dr. B. H SHEKAR**, Chairperson and Professor, Department of Post Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year 2020-2021.


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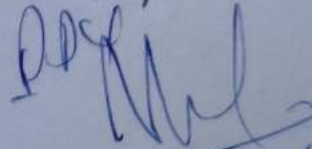
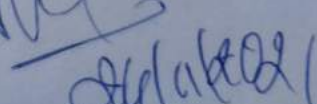

Chairperson 17.11.2021
Chairman
Department of Post-Graduate Studies and
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Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

Internal Examiner

External Examiner


Dr. Jeevan Pimbi

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RESEARCH IN COMPUTER SCIENCE

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CERTIFICATE

This is to certify that the project work entitled “Text Similarity Using Pre-Trained Word Embedding” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **HEMANTHRAJ N (Reg.No. : 193323714)**, a student of fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of Degree in **Master of Science (Computer Science)** by **Mangalore University** during academic year 2020-21.

H. L. Shashirekha
Internal Guide (13/11/21)

Internal Examiner

H. L. Shashirekha
Chairperson 11/11/2021
Department of Post-Graduate Studies and
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Mangalore University, Mangalagangothri - 574 199
MANGALORE KARNATAKA - INDIA
Internal Examiner

Dr. Jeevan Prink

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CERTIFICATE

This is to certify that the project work entitled “**MOBILE NUMBER FORENSIC ANALYSIS TOOL**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **KAVITHA (Reg.No: 193323715)**, a student of fourth semester M.Sc. (Computer Science), under the supervision and guidance of **PRAKASH M**, Asst Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year 2020-21.

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MANGALORE, KARNATAKA, INDIA

External Examiner

Dr. Seevan Pishit

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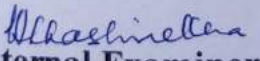
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CERTIFICATE


This is to certify that the project work entitled **“PARKINSON’S DISEASE DETECTION USING MACHINE LEARNING MODELS”** has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **KAVYASHREE (Reg. No: 193323716)**, student of fourth semester M.Sc. in Computer Science, under supervision and guidance of **Dr. DORESWAMY**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2020-21**.


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Chairperson
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Dr. Sevan Pink



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COMPUTER SCIENCE

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project work entitled "**Driver Drowsiness Detection System For Non-Two-Wheeler Vehicles**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by (Reg.No: 193323717), a student of fourth semester M.Sc (Computer Science), under the supervision and guidance of **Dr. Manjaiah D.H**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year 2020-21.

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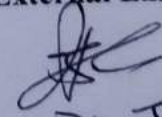
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Chairman
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Mangalore University, Mangalagangothri - 574 199
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External Examiner


Dr. Jeevan Prinh



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MANGALAGANGOTTHRI-574199

CERTIFICATE

This is to certify that the project work entitled “**SKIN LESION CLASSIFICATION USING CONVOLUTION NEURAL NETWORK**” has been successfully carried out in the Department of Post-Graduate Studies and Research in Computer Science by **LIKHITHA M (Reg. No: 193323718)**, student of fourth semester M.Sc. in Computer Science, under supervision and guidance of **Dr. B. H. SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University.

The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2020-21**.

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Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

External Examiner

Dr. Jewan Pinto

18/11/2021

17/11/2021

18/11/2021

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MANGALAGANGOTHRI-574 199

CERTIFICATE

This is to certify that the project work entitled "Named Entity Recognition for Tulu Language using Machine Learning Approaches" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by M. MEGHASHREE (Reg.No. : 193323719), student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of Dr. H. L. Shashirekha, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of Master of Science (Computer Science) by Mangalore University during academic year 2020-21.

H. L. Shashirekha
Internal Guide 12/11/21

H. L. Shashirekha
Internal Examiner 12/11/21

[Signature]
Chairperson
Chairman 17.11.2021

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Mangalore University, Mangalagangothri - 574 199
Internal Examiner

[Signature]
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23/11/2021

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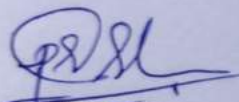
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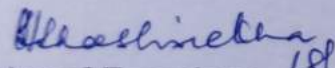
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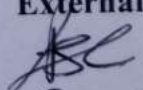
CERTIFICATE

This is to certify that the project work entitled “**Vehicle accident detection and alerting system using IOT**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **MS. MADHUSHREE P** (Reg.No:193323720), student of Fourth semester MSc (Master of Computer Science), under the supervision and guidance of **Mr. PRAKASHA M**, Assistant Professor, Department of Post Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2020-2021**.


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External Examiner

(Dr. Jeevan Pinto)

Submitted for the viva-voce examination held on 18/11/2021

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DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH

IN COMPUTER SCIENCE

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project work entitled “**Gender Recognition by Voice Using Machine Learning Models**” has been successfully carried out in the Post–Graduate Studies and Research in Computer Science by **Maya j (Reg.No: 193323721)**, a student of fourth semester **M.Sc. (Computer Science)**, under the supervision and guidance of **Dr. Doreswamy**, Professor, Department of Post–Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University Mangalagangothri** during academic year 2019-21.

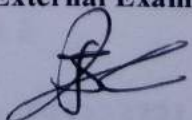
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External Examiner


Dr. Jeevan Pim5

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DEPARTMENT OF POST -GRADUATE STUDIES AND RESEARCH
IN COMPUTER SCIENCE

Mangalagangothri-574 199

CERTIFICATE

This is to certify that the project work entitled "**Social Distancing Detection**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **MUFEEDA FARISHA G (Reg. No: 193323722)**, a student of fourth semester M.Sc. (Computer Science), under the supervision and guidance of **Dr. Manjaiah D. H**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic year 2020-2021.

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Mhathinetha
Internal Examiner (18/11/21)

Dr. Sevan Pink

Submitted for the Viva-Voce examination held on

18/11/2021

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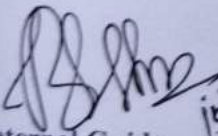
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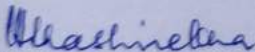
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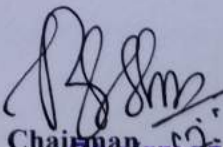
Mangalagangothri-574 199

CERTIFICATE


This is to certify that the project work entitled “**Real Time multiple Object Detection based on Deep Learning**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Nikshitha.B (Reg.No: 193323723)**, a student of fourth semester MSc (Computer Science), under the supervision and guidance of **Dr. B.H SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree by Mangalore University** during academic year 2020-2021.


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Internal Examiner 18/11/21


Chairman 15.11.2021
Department of Post-Graduate Studies and
Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

External Examiner


Dr. Jeevan P. ...

Submitted for the Viva-Voce examination held on 18/11/2021

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CERTIFICATE

This is to certify that the project work entitled "**Parts Of Speech Tagging for Tulu Language using Machine Learning Approaches**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **NIKSHITHA M. (Reg.No.: 193323724)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of requirements for the award of **Master of Science (Computer Science)** by Mangalore University during academic year 2020-21.

Nikshitha
Internal Guide 18/11/21

Internal Examiner

Shree
19/11/2021

Submitted for Viva-Voce examination held on

19/11/21

H. L. Shashirekha
Chairperson 17.11.2021
Department of Post-Graduate Studies and
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Mangalore University Mangalagangothri - 574 199
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CERTIFICATE

This is to certify that the project work entitled "AIR POLLUTION MONITORING SYSTEM" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by NIREEKSHA (Reg.No:193323725), student of Fourth semester MSc (Master of Computer Science), under the supervision and guidance of Mr. PRAKASHA M, Assistant Professor, Department of Post Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of Master of Computer Science by Mangalore University during the academic year 2020-2021.

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CERTIFICATE

This is to certify that the project work entitled “**Earthquake Prediction Using Neural Network Models**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Pankaj R Naik (Reg.No: 193323726)**, a student of fourth semester M.Sc. (Computer Science), under the supervision and guidance of **Dr.Doreswamy**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by Mangalore University during the academic year **2020-2021**.

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Mangalore University/Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

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External Examiner

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19/11/21

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RESEARCH IN COMPUTER SCIENCE
MANGALAGANGOTHRI-574 199

CERTIFICATE

This is to certify that the project work entitled "**DESIGN AND IMPLEMENTATION OF ONLINE EXAMINATION SYSTEM**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Ms. PHETDAVONE SOYVONGHAK (Reg.No:193323727)**, a student of fourth semester MSC (Master of Computer Science), under the supervision and guidance of **Dr. MANJIAH D.H.**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of **Degree** in Master of Computer Science by Mangalore University during the academic year 2020-2021.

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CERTIFICATE

This is to certify that the project work entitled “Morphological Analyzer for Kannada Noun words Using Machine Learning Approach” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **POOJA (Reg.No: 193323729)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfillment of the requirement for the award of **Master of Computer Science** by **Mangalore University** during academic-year 2020-21.

H. L. Shashirekha
Internal Guide 13/11/21

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S. Shroth
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H. L. Shashirekha
13/11/2021
Department of Post-Graduate Studies and
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CERTIFICATE

This is to certify that the project work entitled “SMART BLIND STICK” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Ms. POOJA LAMANI(Reg.NO:193323730)**, a student of Fourth semester MSc(Computer Science), under the supervision and guidance of **Mr. Prakasha M**, Assistant Professor, Department of Post Graduate Studies and Research in Computer Science, Mangalore University .The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Application** by **Mangalore University** during the academic year **2020-2021**.

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MANGALAGANGOTTHRI-574 199

CERTIFICATE

This is to certify that the project work entitled "HUMAN ACTIVITY USING MACHINE LEARNING MODEL" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by PRAJWALA (Reg. No: 193323731), student of fourth semester M.Sc. in Computer Science, under supervision and guidance of Dr. DORESWAMY, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year 2020-21.

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External Examiner

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CERTIFICATE

This is to certify that the project work entitled "TRAFFIC SIGN RECOGNITION USING CONVOLUTIONAL NEURAL NETWORK" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by Ms. PRATHEEKSHA J K (Reg. No: 193323732), student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of Dr. MANJIAH D.H, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of Master of Computer Science by Mangalore University during the academic year 2020-2021.

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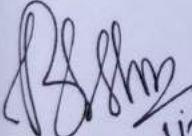


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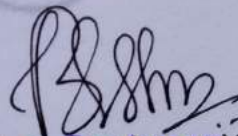
CERTIFICATE

This is to certify that the project work entitled “**modernising monolithic application to micro-service based architecture on cloud using devops methodology**” has been successfully carried out in Grep and Awk Technologies Bangalore by **Ms. PRATHIBHA (Reg. No: 193323733)**, student of Forth semester M.Sc. in Computer Science, under supervision and guidance of internal guide **Dr. B. H. SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University and external guide **Mr. SUKESH ANCHAN**, Grep and Awk technologies Bangalore. The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year **2020-2021**.


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CERTIFICATE

This is to certify that the project work entitled “**Kannada Text Classification Using Machine Learning and Deep Learning Approaches**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **PRATHYUSHA C. H. (Reg. No: 193323734)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of requirements for the award of **Master of Science (Computer Science)** by **Mangalore University** during academic year 2020-21.

H. L. Shashirekha
13/11/21
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19/11/2021

B. S. Suresh
17.11.2021
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CERTIFICATE

This is to certify that the project work entitled "Forest fire detection using IOT" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Mr. RAJATH KUMAR (Reg.No:193323735)**, student of Fourth semester MSc (Master of Computer Science), under the supervision and guidance of **Mr. PRAKASHA M**, Assistant Professor, Department of Post Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2020-2021**.

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RESEARCH IN COMPUTER SCIENCE
MANGALAGANGOTHRI-574 199

CERTIFICATE

This is to certify that the project work entitled "Loan Prediction Using Machine Learning Models" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by Ms. Rakshitha (Reg. No: 193323736), student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of Dr. Doreswamy, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of Master of Computer Science by Mangalore University during the academic year 2020-2021.

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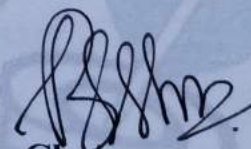
**DEPARTMENT OF POST-GRADUATE STUDIES AND
RESEARCH IN COMPUTER SCIENCE
MANGALAGANGOTRI-574 199**

CERTIFICATE

This is to certify that the project work entitled "**STOCK PRICE PREDICTION USING MACHINE LEARNING**" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Mr. Sadiq Qaid Saleh Ahmed AL Zoubah (Reg. No: 193323737)**, student of Forth semester M.Sc. in Computer Science, under supervision and guidance of **Dr. MANJIAH D.H**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2020-2021**.

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Chairperson 17.11.2021

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Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
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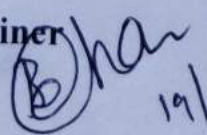
DEPARTMENT OF POST-GRADUATE STUDIES AND
RESEARCH IN COMPUTER SCIENCE
MANGALAGANGOTRI-574 199

CERTIFICATE


This is to certify that the project work entitled **“Real Time Pedestrian Detection Using Deep Learning And Computer Vision”** has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **SANJAY KRISHNA HEGADE (Reg.No: 193323738)**, student of fourth semester M.Sc. in Computer Science, under supervision and guidance of **Dr. B. H. SHEKAR**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University.

The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year **2020-21**.


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MANGALORE, KARNATAKA, INDIA
External Examiner


Dr. Jeevan P. N.

Submitted for Viva-Voce examination held on 19/11/2021

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RESEARCH IN COMPUTER SCIENCE

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CERTIFICATE

This is to certify that the project work entitled “**Kannada Stemmer using Dictionary Based Approach**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **SHARATH K S (Reg.No: 193323739)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri- 574199. The dissertation is partial fulfillment of the requirement for the award of **Master of Computer Science** by **Mangalore University** during academic-year 2020-21.

H. L. Shashirekha
Internal Guide 13/11/21

Internal Examiner

B. Har
19/11/2021

B. Har
Chairperson 18/11/2021

Department of Post-Graduate Studies and
Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
KARNATAKA, INDIA

External Examiner

Dr. Seewan P. int

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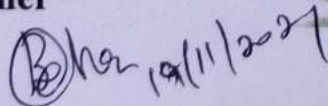
DEPARTMENT OF POST-GRADUATE STUDIES AND
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CERTIFICATE

This is to certify that the project work entitled “Automated IOT Based System for Sanitizing and Temperature Detection” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Ms. Shradha C Shetty** (Reg. No: 193323740), student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of **Mr. Prakasha M, Assistant Professor**, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year 2020-2021.


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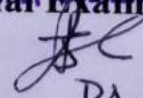
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Dr. Jeevan Pinto

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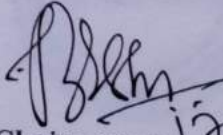
CERTIFICATE

This is to certify that the project work entitled **"SMART DISEASE PREDICTION AND DOCTOR RECOMMENDATION USING DATA ANALYTICS"** has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Mrs. SUPREETHA K(Reg. No: 193323741)**, student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of **Late Dr.DORESWAMY**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year 2020-2021.

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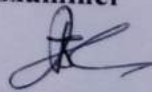
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17-11-2021
Chairperson

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External Examiner


Dr. Teevan Pindl

19/11/2021

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CERTIFICATE

This is to certify that the project work entitled “Automatic Number Plate Detection and Recognition using Image Processing Techniques” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Varsha.A (Reg.No: 193323742)**, a student of fourth semester M.Sc(Computer Science), under the supervision and guidance of **Dr.Manjaiah D.H**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic year 2020-2021.

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Internal Examiner

Qha
19/11/2021

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Chairperson
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11.11.2021

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Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

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Dr. Jeevan Pinto

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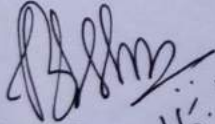
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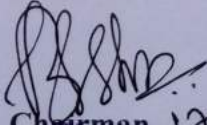
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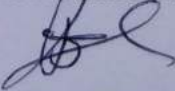
This is to certify that the project work entitled “Video based Tracking and Counting Of Vehicles” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Veena B (Reg.No: 193323743)**, a student of fourth semester MSc (Computer Science), under the supervision and guidance of **Dr.B.H.Shekar**, Chairman and Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by Mangalore University during academic-year 2019-21.


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Department of Post-Graduate Studies and
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External Examiner


Dr. Jeevan Pankaj

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This is to certify that the project work entitled “Parts Of Speech Tagging for Kannada Language using Deep Learning Approaches” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **VIDYA (Reg.No.: 193323744)**, student of Fourth semester M.Sc. in Computer Science, under the supervision and guidance of **Dr. H. L. Shashirekha**, Professor, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of requirements for the award of **Master of Science (Computer Science)** by Mangalore University during academic year 2020-21.

H. L. Shashirekha
Internal Guide 12/11/21

Internal Examiner *[Signature]* 19/11/2021

[Signature] 17.11.2021
Chairperson
Department of Post-Graduate Studies and
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[Signature]
Dr. Jeevan P. N.

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This is to certify that the project work entitled “IoT Based Server Room Security System Using Raspberry Pi” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Mr. VIJAY VINCENT VEIGAS (Reg.No:193323745)**, student of Fourth semester MSc (Master of Computer Science), under the supervision and guidance of **Mr. PRAKASHA M**, Assistant Professor, Department of Post Graduate Studies and Research in Computer Science, Mangalore University. The dissertation is partial fulfilment of the requirements for the award of **Master of Computer Science** by Mangalore University during the academic year **2020-2021**.

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Department of Post-Graduate Studies and
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MANGALORE, KARNATAKA, INDIA

Internal Examiner

19/11/2021
Dr. ANTHO S H B

External Examiner

Dr. Jeevan Prab

Submitted for the viva-voce examination held on 19/11/2021

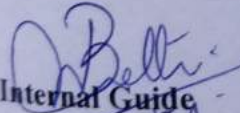
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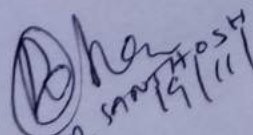
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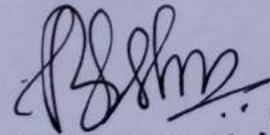
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This is to certify that the project work entitled "EMAIL FORENSIC ANALYSIS TOOL" has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Vijetha B V (Reg.No: 193323746)**, a student of fourth semester M.Sc. (Computer Science), under the supervision and guidance of **DR.BHARATHI PILAR**, Asst Professor, Department of Computer Science, University College, Mangalore. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by Mangalore University during academic-year 2020-21.

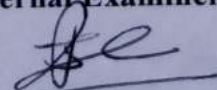

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Dr. Jeevan P. ...

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RESEARCH IN COMPUTER SCIENCE

MANGALAGANGOTHRI-574 199

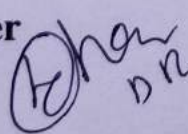
CERTIFICATE

This is to certify that the project work entitled “**ATTENDANCE TRACKING SYSTEM USING FACE RECOGNITION TECHNIQUE**” has been successfully carried out in the Post-Graduate Studies and Research in Computer Science by **Ms. YASHASWINI (Reg. No:193323747)**, student of Fourth semester M.Sc. in Computer Science, under supervision and guidance of **Dr. BHARATHI PILAR**, Assistant Professor, Department of Computer Science University college mangalore.

The dissertation is partial fulfillment of the requirements for the award of **Master of Computer Science** by **Mangalore University** during the academic year **2020-2021**.



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DR. SANGHVI
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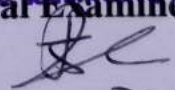
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19/11/2021


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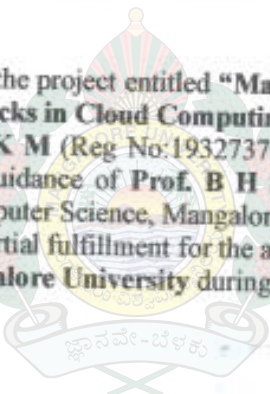
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JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

CERTIFICATE

This is to certify that the project entitled "Machine Learning Solutions for Analysis and Detection of DDoS Attacks in Cloud Computing Environment", has been successfully carried out by ABHISHEK K M (Reg No:193273701), a student of fourth semester M.Sc, under the supervision and guidance of Prof. B H Shekar , Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of Degree in Master of Science in Computer Science by Mangalore University during the academic year 2020-2021




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This is to certify that the project entitled "Twitter Spam Detection Management System" has been successfully carried out by ARCHANA D N (Reg No:193273702), a student of fourth semester M.Sc. under the supervision and guidance of Prof. B H Shekar, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of Degree in Master of Science in Computer Science by Mangalore University during the academic year 2020-2021

Brouthami H.S
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CERTIFICATE

This is to certify that the project entitled "ONLINE BOOKS FOR STUDENTS STUDY MATERIALS", has been successfully carried out by **GOWTHAM M** (RegNo:193273703), a student of fourth semester M.Sc., under the supervision and guidance of **Prof. B H Shekhar**, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of Degree in **Master of Science in Computer Science** by **Mangalore University** during the academic year 2020-2021


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CERTIFICATE

This is to certify that the project entitled "Secure Keyword Searching And Data Sharing" has been successfully carried out by MadanPriya MP (Reg No:193273704), a student of fourth semester M.Sc, under the supervision and guidance of Prof. B H Shekar, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of Degree in Master of Science in Computer Science by Mangalore University during the academic year 2020-2021.


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This is to certify that the project entitled "AI Cyber Security" has been successfully carried out by Ms. MEGHANA M R (Reg No:193273705), a student of fourth semester MSc, under the supervision and guidance of Prof. B H Shekar , Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of Degree in Master of Science in Computer Science by Mangalore University during the academic year 2020-2021

Prathami H.S

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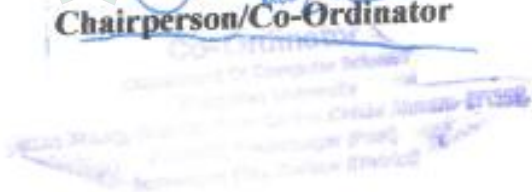
KODAGU-571232

CERTIFICATE

This is to certify that the project entitled "Lattice-based Forward Secure Public-key Encryption with Keyword Search for Cloud-assisted Industrial Internet of Things", has been successfully carried out by NITHIN P (Reg No:193273706), a student of fourth semester M.Sc. under the supervision and guidance of Prof. B H Shekar, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of Degree in Master of Science in Computer Science by Mangalore University during the academic year 2020-2021

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This is to certify that the project entitled "Email Phishing" has been successfully carried out by **RACHANA K R**(Reg No:193273707), a student of fourth semester M.Sc, under the supervision and guidance of **Prof. B H Shekar** , Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of **Degree in Master of Science in Computer Science** by Mangalore University during the academic year 2020-2021


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CERTIFICATE

This is to certify that the project entitled "Health Information Exchange With BlockChainamid Covid-19 Like Pandemics", has been successfully carried out by SANJAY KUMAR A (Reg No:193273708), a student of fourth semester M.Sc, under the supervision and guidance of Prof. B H Shekar , Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of Degree in Master of Science in Computer Science by Mangalore University during the academic year 2020-2021


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This is to certify that the project entitled "Web based online examination system.", been successfully carried out by **SANTHOSHA M D** (Reg No:193273709), a student of 6th semester M.Sc, under the supervision and guidance of **Prof. B H Shekar**, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Chalagangothri-574199. This project is submitted in partial fulfillment for the award of degree in **Master of Science in Computer Science** by **Mangalore University** during the academic year 2020-2021


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CERTIFICATE

This is to certify that the project entitled "NativeFarm", has been successfully carried out by **Vijay H S** (Reg No:193273710), a student of fourth semester M.Sc, under the supervision and guidance of **Prof. B H Shekar**, Department of Post-Graduate Studies and Research in Computer Science, Mangalore University, Mangalagangothri-574199. This project is submitted in partial fulfillment for the award of **Degree in Master of Science in Computer Science** by **Mangalore University** during the academic year 2020-2021


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