MANGALORE UNIVERSITY

Accredited with NAAC

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

Chairperson

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

Internal Examiner

18/11/2021.

Submitted for the Viva-Voce Examination held on 18.11.2021.

18/11/2021

MANGALORE UNIVERSITY

Accredited with 'A' Grade by NAAC

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

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. 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 **Degree** in **Master of Computer Science** by **Mangalore University** during the academic year **2020-2021.**

17.11.2021

Internal Guide

Chairperson

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

Internal Examiner

External Examiner

Submitted for the Viva-Voce Examination held on 8/12/2021

MANGALORE UNIVERSITY

Accredited by NAAC

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

CERTIFICATE

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.**

15.11.2021

Internal Guide

17.11.2021

Chairperson

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

Internal Examiner

External Examiner

Submitted for Viva-Voice examination held on _____

MANGALORE UNIVERSITY

DEPARTMENT OF POST–GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE
MANGALAGANGOTHRI-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, Mangalagangotri-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.

Shashirekha 15/11/21
Internal Guide

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

Internal Examiner

15/11/2021 Dr. Sharmila.

18/11/2021
External Examiner

Submitted for Viva-Voce examination held on 18. 11. 2021

pp 18/11/2021

MANGALORE UNIVERSITY
ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

DEPARTMENT OF POST –GRADUATE STUDIES

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, Mangalagangotri-574199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year 2020-21.

Internal Guide

Chairman
Department of Post-Graduate Studies and Research in Computer Science
Mangalore University, Mangalagangotri - 574 19
MANGALORE, KARNATAKA, INDIA

Internal Examiner

External Examiner

(Dr. Sharmila) 18.11.2021

Submitted for the Viva-Voce examination held on 18.11.2021

MANGALORE UNIVERSITY

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

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** Professor, Department of Post-Graduate Studies and Research in Computer Science, 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

17.11.2021

Chairperson

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

Internal Examiner

15-11-2021
Dr. Sharmila.

External Examiner

18/11/2021

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

24/11/2021

MANGALORE UNIVERSITY

Accredited with "A" Grade by NAAC

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

CERTIFICATE

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. MANJAIAH 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**.

17-11-2021

Internal Guide

Chairperson

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

Internal Examiner

External Examiner

Submitted for Viva-Voce examination held on _____

MANGALORE UNIVERSITY

Accredited by NAAC

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

CERTIFICATE

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**.

15.11.2021

Internal Guide

17.11.2021

Chairperson

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

Internal Examiner

External Examiner

Submitted for Viva-Voice examination held on _____

24/11/2021

MANGALORE UNIVERSITY

DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

MANGALAGANGOTHRI-574199

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.

Hlshashirekha 13/11/21
Internal Guide

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

Internal Examiner

External Examiner

Submitted for the Viva-Voce Examination held on _____

MANGALORE UNIVERSITY

Accredited by NAAC

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

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.**

Internal Guide

Chairperson 17/11/2021

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

Internal Examiner

External Examiner

Submitted for the viva-voce examination held on _____ 24/11/2021

MANGALORE UNIVERSITY

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

CERTIFICATE

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.**

17.11.2021

Internal Guide

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

Internal Examiner

External Examiner

Submitted for Viva-Voce examination held on _____

MANGALORE UNIVERSITY
ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

Mangalagangothri-574 199

CERTIFICATE

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, Mangalagangotri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year2019-21.

Internal Guide

Chairperson

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

Internal Examiner

External Examiner

Submitted for the Viva-Voce examination held on _____

MANGALORE UNIVERSITY

Accredited by NAAC

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

CERTIFICATE

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.**

Internal Guide 15.11.2021

Chairperson 17.11.2021

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

Internal Examiner

External Examiner

Dr. Jeevan Pinto

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

MANGALORE UNIVERSITY

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

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, Mangalagangotri-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.

Hlashirekha 13/11/21
Internal Guide

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

Internal Examiner

External Examiner

Dr: Jeevan Pinto

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

MANGALORE UNIVERSITY

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 Scienceby **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, Mangalagangotri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year2020-21.

17/11/2021

Internal Guide

Chairperson

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

Internal Examiner

External Examiner

Dr. Seevan Pinto

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

MANGALORE UNIVERSITY

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

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.**

Internal Guide

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

Internal Examiner 18/11/21

External Examiner

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

MANGALORE UNIVERSITY

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH IN 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, Mangalagangotri-574199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year 2020-21.

Internal Guide

Chairman

Chairman 18/11/21
Department of Post-Graduate Studies and Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
MANGALORE, KARNATAKA, INDIA

Internal Examiner

External Examiner

Dr. Jeevan Pinto

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

MANGALORE UNIVERSITY

DEPARTMENT OF POST-GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE MANGALAGANGOTHRI-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.**

Internal Guide 13/11/2021

Chairperson 17.11.2021

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

Internal Examiner

External Examiner

Dr. Jeevan Pinto

Submitted for Viva-Voice examination held on 18/11/2021

23/11/2021

MANGALORE UNIVERSITY

DEPARTMENT OF POST–GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

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.

Hlshashirekha 12/11/21
Internal Guide

17.11.2021
Chairperson
Chairman
Department of Post-Graduate Studies and Research in Computer Science
Mangalore University, Mangalagangothri - 574 199

Hlshashirekha 18/11/21
Internal Examiner

External Examiner
Dr. Jeevan Pinto

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

23/11/2021

MANGALORE UNIVERSITY

Accredited by NAAC

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

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.**

Internal Guide

Chairperson 17.11.2021

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

Internal Examiner 18/11/21

External Examiner

(Dr. Jeevan Pinto)

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

MANGALORE UNIVERSITY

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, Mangalagangotri-574199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University Mangalagangotri** during academic year 2019-21.

Internal Guide

Chairman

18.11.2024

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

Internal Examiner

External Examiner

Dr. Jeevan Pinto

Submitted for the Viva-Voice examination held on 18/11/2024

MANGALORE UNIVERSITY

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

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, Mangalagangotri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic year 2020-2021.

Internal Guide 18/11/2021

Chairperson 17-11-2021

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

Internal Examiner 18/11/21

External Examiner

Dr. Jeevan Pinto

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

MANGALORE
ಮಂಗಳೂರು

UNIVERSITY
ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

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, Mangalagangotri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic year 2020-2021.

15.11.2021
Internal Guide

15.11.2021
Chairman

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

Internal Examiner 18/11/21

External Examiner

Dr. Jeevan Pinto

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

MANGALORE UNIVERSITY

DEPARTMENT OF POST–GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

MANGALAGANGOTHRI-574 199

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.

Hlshashirekha 8/11/21
Internal Guide

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

Internal Examiner

19/11/2021

External Examiner

Submitted for Viva-Voce examination held on 19/11/21

MANGALORE UNIVERSITY

Accredited by NAAC

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

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.**

Internal Guide

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

Internal Examiner

19/11/2021

External Examiner

Submitted for the viva-voce examination held on 19/11/21

MANGALORE UNIVERSITY

DEPARTMENT OF POST–GRADUATE STUDIES AND RESEARCH

IN COMPUTER SCIENCE

Mangalagangothri-574 199

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**.

Internal Guide

Chairman

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

External Examiner

Internal Examiner

19/11/2021

Submitted for the Viva-Voice examination held on 19/11/21

MANGALORE UNIVERSITY

Accredited with 'A' Grade by NAAC

DEPARTMENT OF POST- GRADUATE STUDIES AND 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. 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 **Degree** in **Master of Computer Science** by **Mangalore University** during the academic year **2020-2021.**

Internal Guide

17-11-2021

Chairperson

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

Internal Examiner

18/11/21

External Examiner

Dr. Jeevan Pinto

Submitted for the Viva-Voce Examination held on 18/11/21

MANGALORE UNIVERSITY

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

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.

HLShashirekha 13/11/21
Internal Guide

Chairperson
Chairman 17.11.2021
Department of Post-Graduate Studies and Research in Computer Science
Mangalore University, Mangalagangothri - 574 199
MANGALORE-574199, KARNATAKA, INDIA

Internal Examiner 19/11/2021

External Examiner

Submitted for the Viva-Voce Examination held on 19/11/21

MANGALORE UNIVERSITY

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

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.**

Internal Guide

17.11.2021

Chairperson

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

Internal Examiner

19/11/2021

External Examiner

Submitted for the viva-voice examination held on 19/11/21

MANGALORE UNIVERSITY

DEPARTMENT OF POST-GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE MANGALAGANGOTHRI-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.**

17.11.2021

Chairperson

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

Internal Guide

External Examiner

Internal Examiner

19/11/2021

Submitted for Viva-Voce examination held on 19/11/21

MANGALORE UNIVERSITY

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

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. MANJAIAH 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**.

Internal Guide

Chairperson 17.11.2021

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

Internal Examiner 19/11/2021

External Examiner

Submitted for Viva-Voice examination held on 19/11/21

MANGALORE UNIVERSITY

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

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**.

15.11.2021
Internal Guide

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

Internal Examiner

19/11/2021

External Examiner

Submitted for Viva-Voice examination held on 19/11/21

MANGALORE UNIVERSITY

DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

MANGALAGANGOTHRI-574 199

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.

Hlshashirekha 13/11/21
Internal Guide

17.11.2021
Chairperson

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

Internal Examiner 19/11/2021

External Examiner

Submitted for Viva-Voce examination held on 19/11/21

MANGALORE UNIVERSITY

Accredited with 'A' Grade by NAAC

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

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.**

Internal Guide

17.11.2021

Chairperson

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

Internal Examiner

19/11/2021

External Examiner

Submitted for the viva-voice examination held on 19/11/21

MANGALORE UNIVERSITY

Accredited by NAAC

DEPARTMENT OF POST-GRADUATE STUDIES AND 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.

Internal Guide

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

Internal Examiner

External Examiner

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

MANGALORE UNIVERSITY

Accredited with "A" Grade by NAAC

DEPARTMENT OF POST-GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE MANGALAGANGOTHRI-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. MANJAIAH 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**.

17.11.2021

Internal Guide

Chairperson

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

Internal Examiner

External Examiner

Submitted for Viva-Voice examination held on _____

MANGALORE UNIVERSITY

DEPARTMENT OF POST-GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE
MANGALAGANGOTHRI-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.**

Internal Guide 15.11.2021

Chairperson 15.11.2021

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

Internal Examiner 19/11/2021

External Examiner

Dr. Jeevan P.

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

MANGALORE UNIVERSITY

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

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, Mangalagangotri- 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.

Hlshashirekha
Internal Guide 13/11/21

Chairperson 19.11.2021

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

Internal Examiner 19/11/2021

External Examiner

Dr. Seevan Pint

Submitted for the Viva-Voce Examination held on 19/11/2021

MANGALORE UNIVERSITY

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

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**.

Internal Guide

Chairperson 17.11.2021

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

Internal Examiner

19/11/2021

External Examiner

Dr. Jeevan Pinto

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

MANGALORE UNIVERSITY

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

CERTIFICATE

This is to certify that the project work entitled **"SMART DISEASE PREDICTION AND DOCTOR RECOMMDENDATION 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**.

12-11-2021

Internal Guide

Chairperson

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

Internal Examiner

Dr. ANTHOSH D
19/11/2021

External Examiner

Dr. Jeevan Pinto

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

MANGALORE
ಮಂಗಳೂರು

UNIVERSITY
ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

Mangalagangothri-574 199

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, Mangalagangotri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic year 2020-2021.

Internal Guide

Chairperson 9.11.2021

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

Internal Examiner 19/11/2021

External Examiner

Dr. Jeevan Pinto

Submitted for the Viva-Voice examination held on 19/11/2021

MANGALORE UNIVERSITY

ಮಂಗಳೂರು ವಿಶ್ವವಿದ್ಯಾನಿಲಯ

DEPARTMENT OF POST –GRADUATE STUDIES AND RESEARCH IN COMPUTER SCIENCE

Mangalagangothri-574 199

CERTIFICATE

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, Mangalagangotri-574 199. The dissertation is approved for the award of **Master of Science (Computer Science) degree** by **Mangalore University** during academic-year 2019-21.

Internal Guide 15.11.2021

Chairman 17.11.2021

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

Internal Examiner 19/11/2021

External Examiner

Dr. Jeevan Pinto

Submitted for the Viva-Voice examination held on 19/11/2021

MANGALORE UNIVERSITY

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

CERTIFICATE

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.

Hlshashirekha 12/11/21
Internal Guide

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

Internal Examiner 19/11/2021

External Examiner
Dr. Selvam P.

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

MANGALORE UNIVERSITY

Accredited by NAAC

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

CERTIFICATE

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.**

Internal Guide

Chairperson 9/11/2021

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

Internal Examiner

19/11/2021
Dr SANTHOSH B

External Examiner

Dr. Jeevan Pujari

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

MANGALORE UNIVERSITY

CERTIFICATE

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.**

Internal Guide

15/11/21

Chairperson 17.11.2021

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

Internal Examiner

DR SANTHOSH D. 19/11/2021

External Examiner

Dr. Jeevan P. Nikhil

Submitted for the Viva-Voice examination held on 19/11/2021

MANGALORE UNIVERSITY

Accredited by NAAC

DEPARTMENT OF POST-GRADUATE STUDIES AND 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**.

Internal Guide

Chairperson 19.11.2021

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

Internal Examiner DR SANTHOSH D 19/11/2021

External Examiner Dr. Jeevan Pinto

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

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

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 projectis 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

Internal Guide/Co-Supervisor

Chairperson/Co-Ordinator

Internal Examiner

External Examiner

Submitted for Viva-examination held on..... 20/11/21

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

CERTIFICATE

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

Soumya H.S

Internal Guide/Co-Supervisor **Chairperson/Co-ordinator**

Internal Examiner **External Examiner**

Submitted for Viva-examination held on....20/11/21.....

MANGALORE UNIVERSITY

Accredited by NAAC with "A"

GradeDEPARTMENTOFCOMPUTERSCIE

NCE

JNANAKAVERIPGCENTRE,CHIKKAALUVARAK

ODAGU-571232

CERTIFICATE

This is to certify that the project entitled **"ONLINE BOOKS FOR STUDENTS STUDY MATERIALS"**. has been success fully 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

InternalGuide/Co-Supervisor

Chairperson/Co-Ordinator

Co-Ordinator
Department of Computer Science
Mangalore University
Jnana Kaveri, Post Graduate Centre, Chikka Aluvara- 571232,
Kodagu, Karnataka (State)

InternalExaminer

ExternalExaminer

SubmittedforViva-examinationheldon....20/11/21.....

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

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 projectis submitted in partial fulfillment for the award of **Degree** in **Master of Science in ComputerScience** by **Mangalore University** during the academic year 2020-2021.

Internal Guide/Co-Supervisor

Chairperson/Co-Ordinator

Internal Examiner

External Examiner

Submitted for Viva-examination held on.....20/11/21.....

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

CERTIFICATE

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

Gouthami H.S

Internal Guide/Co-Supervisor

Chairperson/Coordinator

Co-Ordinator
Department Of Computer Science
Mangalore University
Jnana Kaveri Post Graduate Centre, Chikka Aluvara- 571232.

Internal Examiner

External Examiner

Submitted for Viva-examination held on..20/11/21.....

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

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 MSc. under the supervision and guidance of **Prof. B H Shekar** , Department of Post-Graduate Studies and Research in Computer Science, Mangalagangothri-574199. This projectis submitted in partial fulfillment for the award of **Degree** in **Master of Science in ComputerScience** by **Mangalore University** during the academic year 2020-2021

Internal Guide/Co-Supervisor

Chairperson/Co-Ordinator

Internal Examiner

External Examiner

Submitted for Viva-examination held on 20/11/21

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

CERTIFICATE

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 projectis submitted in partial fulfillment for the award of **Degree** in **Master of Science in ComputerScience** by **Mangalore University** during the academic year 2020-2021

Internal Guide/Co-Supervisor

Chairperson/Co-Ordinator

Internal Examiner

External Examiner

Submitted for Viva-examination held on.....20/11/21.....

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

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 projectis submitted in partial fulfillment for the award of **Degree** in **Master of Science in ComputerScience** by **Mangalore University** during the academic year 2020-2021

Internal Guide/Co-Supervisor **Chairperson/Co-Ordinator**

Internal Examiner **External Examiner**

Submitted for Viva-examination held on.....20/11/21.....

IANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

CERTIFICATE

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 th semester M.Sc, under the supervision and guidance of **Prof. B H Shekar** , Department Post-Graduate Studies and Research in Computer Science, Mangalore University, galagangothri-574199. This project is submitted in partial fulfillment for the award of ree in **Master of Science in Computer Science** by **Mangalore University** during the emic year 2020-2021

rnal Guide/Co-Supervisor

Chairperson/Co-Ordinator

rnal Examiner

External Examiner

mitted for Viva-examination held on.....20/11/21.....

MANGALORE UNIVERSITY

Accredited by NAAC with "A" Grade

DEPARTMENT OF COMPUTER SCIENCE

JNANA KAVERI PG CENTRE, CHIKKA ALUVARA

KODAGU-571232

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

Internal Guide/Co-Supervisor

Chairperson/Co-Ordinator

Internal Examiner

External Examiner

Submitted for Viva-examination held on...20/11/21.....