

**PREDICTING DEPRESSION LEVELS ON SOCIAL
MEDIA ENGAGEMENT:
A MACHINE LEARNING APPROACH**

DISSERTATION REPORT

Submitted by

AMRITHA DILEEP, THYBA VZ

(KH.EN.P2MCA22010,KH.EN.P2MCA22034)

Under the guidance of

Dr .Sangeetha J

Head Of Department,

Department of Computer Science and IT

in partial fulfilment of the requirements of

AMRITA VISHWA VIDYAPEETHAM

for the award of degree of

MASTER OF COMPUTER APPLICATIONS



AMRITA VISHWA VIDYAPEETHAM, KOCHI CAMPUS

MAY 2024

**DEPARTMENT OF COMPUTER SCIENCE AND
IT SCHOOL OF COMPUTING**

**AMRITA VISHWA
VIDYAPEETHAM**

KOCHI CAMPUS



BONAFIDE CERTIFICATE

This is to certify that the dissertation report titled "Predicting Depression Levels on Social Media Engagement: A Machine Learning Approach " submitted by **AMRITHA DILEEP** Reg.No. **KH.EN.P2MCA22010**, and THYBA VZ Reg.No. **KH.EN.P2MCA22034**, for the award of the degree of **Master of Computer Applications** under the **Faculty of Computing**, is a bonafide record of the work carried out by them under my guidance and supervision at the Department of Computer Science and IT, School of Computing,

Amrita Vishwa Vidyapeetham, Kochi Campus.

Dr.Sangeetha J (Research Advisor)
Head of the Department
Department of Computer Science
and IT,
School of Computing,
Amrita Vishwa Vidyapeetham,
Kochi Campus

Date:

Internal Examiner

External Examiner

DECLARATION

We, **Amritha Dileep**(KH.EN.P2MCA22010), **Thyba VZ**(KH.EN.P2MCA22034) hereby declare that this dissertation entitled “**Predicting Depression Levels on Social Media Engagement: A Machine Learning Approach**” is the record of the original work done by us under the guidance of Dr.Sangeetha J, Head Of Department, Department of Computer Science and IT, Amrita Vishwa Vidyapeetham, Kochi Campus. To the best of our knowledge, this work has not formed the basis for the award of any degree/diploma/associate ship/fellowship or a similar award to any candidate in any University.

Place: Kochi

Date:

**AMRITHA DILEEP,
THYBA VZ**

ACKNOWLEDGEMENT

We would like to express our gratitude to all who have helped us directly or indirectly in our research work. To start with, we thank the Almighty for all the blessings showered on us during the tenure of our research.

We offer our humble salutations at the lotus feet of **Sri Mata Amritanandhamayi Devi**, who is the guiding light of this Research work.

We are much obliged to **Dr. U. Krishnakumar**, Director, Amrita Vishwa Vidyapeetham-Kochi Campus for giving us the opportunity to complete our work.

We express our sincere thanks to **Dr. Sangeetha J**, our Guide and Head of the Department, Dept. of Computer Science & IT for her valuable support and encouragement. We also express our deep gratitude towards her for providing us the opportunity to work under her guidance as well as for rendering help and support that we required to complete this research successfully.

We extend special thanks to all the faculty members for the facilities and valuable guidance that was provided to us for the completion of our dissertation work.

Finally, we wish to express our sincere thanks to our family, friends who have contributed a lot towards our work and our mental well being during this period.



CERTIFICATE OF PLAGIARISM CHECK

Name of the Students	Amritha Dileep, Thyba VZ
Course of Study	Master Of Computer Applications,MCA
Title of the Thesis/Dissertation	PREDICTING DEPRESSION LEVELS ON SOCIAL MEDIA ENGAGEMENT: A MACHINE LEARNING APPROACH
Name of the Supervisor	Dr.Sangeetha J
Acceptable Maximum Limit	10 or Below 10%
% of Similarity of Content Identi- fied	2%
Software Used	Turnitin
Date of Verification	

Report on Plagiarism check, items with percentage of similarity is attached

Signature of the Supervisor

Signature of the Students

Director of Institution

Head of the Department

Research Coordinator