VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"JNANA SANGAMA", BELAGAVI - 590 018

NEURAL NETWORKS AND DEEP LEARNING LABORATORY
(21AIL75) REPORT

Submitted by

Prasanna   **4SF21AD038**

In partial fulfilment of the requirements for the VII semester

of

BACHELOR OF ENGINEERING

in

ARTIFICIAL INTELLIGENCE & DATA SCIENCE

at

SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT
An Autonomous Institution

Adyar, Mangaluru - 575 007

Academic Year: 2024 - 25

SAHYADRI
COLLEGE OF ENGINEERING & MANAGEMENT
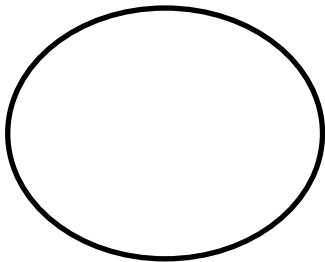### An Autonomous Institution
MANGALURU

<u>CERTIFICATE</u>

This is to certify that Mr. Prasanna bearing USN: 4SF21AD038 has satisfactorily completed the course of experiments in Neural Networks and Deep Learning Laboratory (21AIL75) in partial fulfilment of the requirements of VII semester of Bachelor of Engineering Degree Course in Artificial Intelligence & Data Science as prescribed by the Visvesvaraya Technological University during the year 2024-25.

Date:

Internal Assessment Marks   Faculty In charge

Experiment Details

Experiment No.	Experiment Name	Date of Execution	Page No.	Marks (10)
1	Activation Functions – sigmoid, tanh, ReLU and softmax	24/09/2024	1	
2	a. Single unit Perceptron b. AND, OR, XOR for single unit perception	01/10/2024	3	
3	Deep Feed-forward Neural Network	08/10/2024	7	
4	CNN to classify multi-category image dataset	15/10/2024	9	
5	Image classification model using Deep feed-forward neural network	07/11/2024	12	
6	Bi-Directional LSTM for Sentiment analysis	21/11/2024	14	
7	Standard VGG16 and 19 CNN architecture model to classify multicategory image dataset	05/12/2024	16	