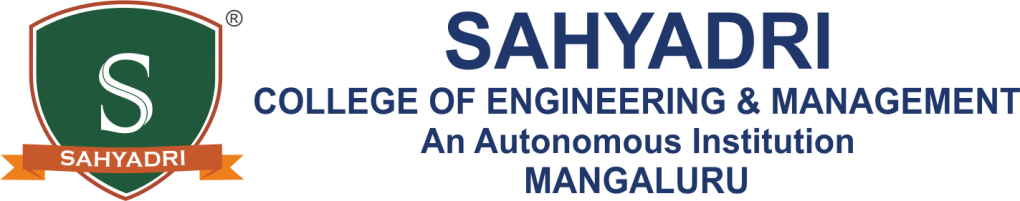
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| **VISVESVARAYA TECHNOLOGICAL UNIVERSITY**  **“JNANA SANGAMA”, BELAGAVI - 590 018** | |
|  | |
| **NEURAL NETWORKS AND DEEP LEARNING LABORATORY**  **(21AIL75) REPORT** | |
|  | |
|  | |
| Submitted by | |
| **Vishesh Hadimani** | **4SF21AD060** |
| ***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**

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**CERTIFICATE**

This is to certify that Mr. Vishesh Hadimani bearing USN: 4SF21AD060 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

Head of the Department 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 | 1. Single unit Perceptron 2. 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 |  |