**Deccan Education Society’s**

**Navinchandra Mehta Institute of**

**Technology and Development**

# C E R T I F I C A T E

This is to certify that Mr. / Miss.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of M.C.A. Semester III with Roll No.\_\_\_\_\_\_\_ has completed \_\_\_\_\_\_\_ practicals of Deep Learning under my supervision in this college during the year 2022-2023.

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| --- | --- | --- | --- | --- | --- |
| CO | R1  (Attendance) | R2  (Performance during lab session) | R3  (Innovation in problem solving technique) | R4  (Mock Viva) | R5  **(V**ariation in implementation of learnt topics on projects) |
| CO 1 |  |  |  |  |  |
| CO 2 |  |  |  |  |  |
| CO 3 |  |  |  |  |  |
| CO 4 |  |  |  |  |  |

Practical-in-charge Head of Department

MCA Department (NMITD)

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| **Deep Learning Lab Index** | | | | |
| **Sr. No.** | **Topic Name** | **Date** | **CO** | **Sign** |
| 1. | Implement Feed Forward Neural Network for Handwritten Digit Recognition |  | CO 4 |  |
| 2. | Implement Tensors and Tensor Operations – Slicing, Broadcasting and Reshaping |  | CO 1 |  |
| 3. | Implement Multi-Layered Perceptron Network for Multi-Class Classification |  | CO 4 |  |
| 4. | Demonstrate Data Preprocessing Techniques for Deep Learning |  | CO 2 |  |
| 5. | Demonstrate Regularization Technique of Early Stopping in Training Sentiment Classification Model for Movie Reviews |  | CO 3 |  |
| 6. | Implement Convolutional Neural Network for Classification |  | CO 4 |  |
| 7. | Implement a Simple Recurrent Neural Network for Sequence Prediction |  | CO 4 |  |