

21BDS0340

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Deep Learning Lab

Assignment – IV

Procedure:

1. Import the required packages
2. Load the dataset locally
3. Normalize the train features
4. Reshape the train features for the convolutional layers
5. Split the training data into train and validation datasets
6. Plot a random training data sample
7. Build the TensorFlow model
8. Evaluate the model with the test datasets
9. Plot the model accuracy vs validation accuracy
10. Plot the model loss vs validation loss
11. Find the confusion matrix between real and predicted classes
12. Find the F1, precision, recall and support scores for the confusion matrix

Interactive Python Notebook on the following pages: