

Digital Receipt

This receipt acknowledges that Turnitin received your paper. Below you will find the receipt information regarding your submission.

The first page of your submissions is displayed below.

Submission author: Jash Prakash Rana

Assignment title: Assignment 1 PDF

Submission title: DL Assignment 1.pdf

File name: DL_Assignment_1.pdf

File size: 761.18K

Page count: 27

Word count: 6,744

Character count: 34,109

Submission date: 26-Feb-2023 05:42PM (UTC+0000)

Submission ID: 2023292680

CT5133: Deep Learning Assignment 1 2023 Student Name(s): Soumitra Koustubh Manavi, Jash Prakash Rana In this assignment, we will will implement a deep neural network from Contributions within the team of 2: 1] Loading Blob and Moon Dataset and Data Visualisation - Soumitra, Jash 2] Explain Logistic Regression in Brief - Soumitra 3] Implement Logistic Regression from Scratch - Cost Function and Update weights using SGD - Soumitra Forward Prop - Jash 4] Train and Test Data on Logisitic Regression - Soumitra,Jash 5] Explain Shallow Neural Network in Brief - Jash 6] Implement Shallow Neural Network - Forward Prop and Back Prop - Soumitra Update weights and Cost function using SGD - Jash 71 Train and Test Data on Shallow Neural Network- Soumitra Jash 8] Load MNIST Dataset and filter out the data with class labels [0,9] in our case - Soumitra, Jash 9] Train and Test MNIST Data on Shallow Neural Network- Soumitra, Jash Soumitra Koustubh Manavi Backprop with L2 Regularization Jash Prakash Rana - Backprop with Momentum Loading all the required libraries and the dataset from sklearn.model_selection import train_test_split from sklearn.metrics import accuracy_score, classification_report, f1_score from sklearn.preprocessing import StandardScaler