# Lab 3

Sidh Satam

J042

1. MNIST

|  |  |  |
| --- | --- | --- |
| Model | Test Loss | Test Accuracy |
| SGD | 0.08616 | 0.9843 |
| RRMSprop | 0.13863 | 0.9823 |
| **Adagrad** | **0.11542** | ***0.9857*** |
| Adadelta | 0.11542 | 0.9856 |
| Adam | 0.12222 | 0.9795 |
| Adamax | 0.11369 | 0.9851 |
| Nadam | 0.14421 | 0.9791 |

Of these 7 optimizers, Adagrad performs the best as it has the highest accuracy on test set.

1. CIFAR10(Adagrad)

Test Loss: 14.506286

Test Accuracy: 0.100000