# CPSC 501 – Assignment 4

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## Part 1

To optimize the given MNIST model, I performed the following:

- Added a Dense layer with 512 neurons

- To prevent overfitting, Dropout layer was added as well

- The algorithm was changed to 'Adam'

- Number of epochs increased from 1 to 10

## Part 2

### Part 2.1

Initial model for Part 2 was using the same layers as the model for Part 1, which can be seen here 14cec7c3. The accuracy with that model was roughly 93%.

### Part 2.2

To improve the model, I implemented a Convolution Neural Network, which increased the accuracy of notMNIST model to roughly 95%.

## Part 3

TODO