Neural network output

```
Epoch 50/50
1563/1563 [==============================] - 16s 10ms/step - loss: 0.0721 - mse: 0.0721
313/313 [==============================] - 1s 4ms/step
NN accuracy:  41.6 %
```

With 1000 neurons in a single layer, I was able to accomplish a over 40% accuracy which was pretty ok.

Compared to 1-nn the neural network was better at predicting the classes. Compared to the Bayesian learning the accuracy seemed comparable but there is a lot more room to improve the accuracy with the neural network.