**Minutes**

15/12/22

* Discussed RNNs. This will be a deep network architecture I compare the CNN model to and will discuss this in the dissertation.
* Looked at training loss on Google Colab. It is currently fluctuating and not decreasing as expected. From Kevin’s inspection, the training loop seems to be setup correctly.
* Discussed training loss curves with respect to epochs:

Loss

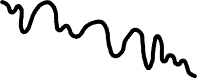
Epoch



* + Here the black line is the loss on the training set, and the blue line is the loss on the validation set.
  + The loss is expected to go down each epoch as the model learns features from the training set.
  + The validation data (blue line) shooting off after the 4th plotted epoch is an example of when the model is overfitting on the training data. So, training should only be taken up to this point.
  + Dropout – prevents overfitting.
* In reality training loss can look like this:

Loss

Epoch



* + Very much not a straight decline, however after a number of epochs we should see a lower loss.
* Next step is to try training loop with many epochs and plot epochs against the loss.
* Looked over status report.

Goals for winter:

* Django server set up
* Trained and tested CNN model.