Master Project (MSc Online/Tutored E-Learning)
School of Computer Science

Project Management Log number: 6

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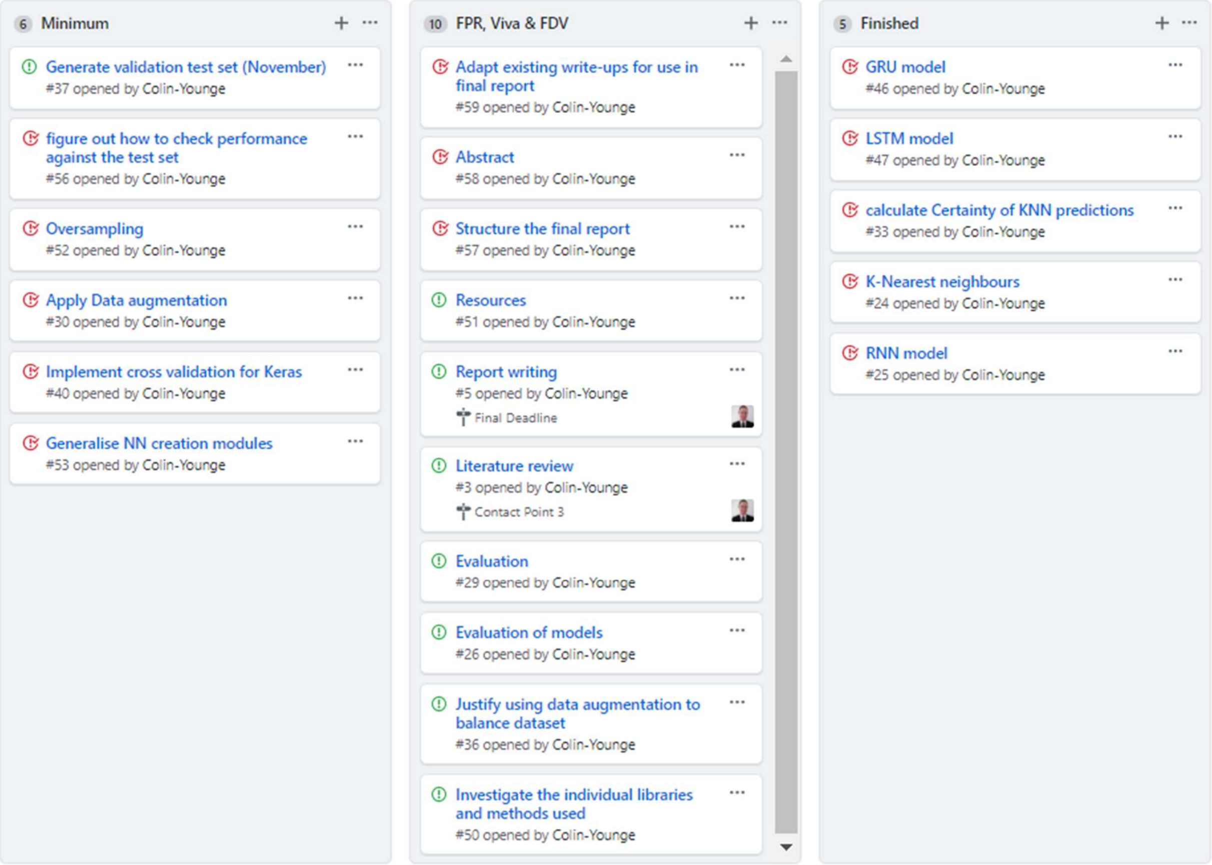
Supervisor Name	Giseli De Sousa
Project Title	Closed-Domain Intention Classification with Supervised Learning Methods
Project Management Tool	GitHub

Since the last contact point, I have completed building models, augmented my data, and started work on my final report:



6 Minimum

- Generate validation test set (November)
  #37 opened by Colin-Younge
- figure out how to check performance against the test set
  #56 opened by Colin-Younge
- Oversampling
  #52 opened by Colin-Younge
- Apply Data augmentation
  #30 opened by Colin-Younge
- Implement cross validation for Keras
  #40 opened by Colin-Younge
- Generalise NN creation modules
  #53 opened by Colin-Younge

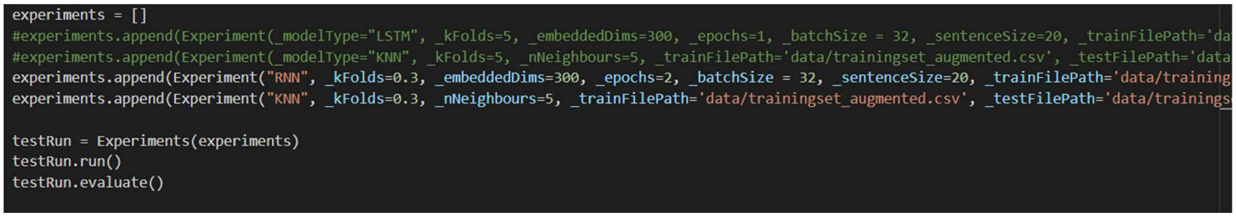
10 FPR, Viva & FDV

- Adapt existing write-ups for use in final report
  #59 opened by Colin-Younge
- Abstract
  #58 opened by Colin-Younge
- Structure the final report
  #57 opened by Colin-Younge
- Resources
  #51 opened by Colin-Younge
- Report writing
  #5 opened by Colin-Younge
  Final Deadline
- Literature review
  #3 opened by Colin-Younge
  Contact Point 3
- Evaluation
  #29 opened by Colin-Younge
- Evaluation of models
  #26 opened by Colin-Younge
- Justify using data augmentation to balance dataset
  #36 opened by Colin-Younge
- Investigate the individual libraries and methods used
  #50 opened by Colin-Younge

5 Finished

- GRU model
  #46 opened by Colin-Younge
- LSTM model
  #47 opened by Colin-Younge
- calculate Certainty of KNN predictions
  #33 opened by Colin-Younge
- K-Nearest neighbours
  #24 opened by Colin-Younge
- RNN model
  #25 opened by Colin-Younge

I have been working on a generalized approach to my software development as demonstrated below:



```
experiments = []
#experiments.append(Experiment(_modelType="LSTM", _kFolds=5, _embeddedDims=300, _epochs=1, _batchSize = 32, _sentenceSize=20, _trainFilePath='da
#experiments.append(Experiment(_modelType="KNN", _kFolds=5, _nNeighbours=5, _trainFilePath='data/trainingset_augmented.csv', _testFilePath='data
experiments.append(Experiment("RNN", _kFolds=0.3, _embeddedDims=300, _epochs=2, _batchSize = 32, _sentenceSize=20, _trainFilePath='data/training
experiments.append(Experiment("KNN", _kFolds=0.3, _nNeighbours=5, _trainFilePath='data/trainingset_augmented.csv', _testFilePath='data/trainings

testRun = Experiments(experiments)
testRun.run()
testRun.evaluate()
```

This will help with remaining optimization of hyperparameters.

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http://sitem.herts.ac.uk/secreg/upr/pdf/AS14-Apx3-Assessment%20Offences-v06.0.pdf