**Weekly Log 25/01/2019**

**Supervisor Meeting:**

* We discussed that my project is too ambitious and agreed that I should specify my project to neural networks instead of multiple machine learning algorithms.
* We looked over the compliance statement and Rodger explained what it meant.
* Rodger suggested that I should soon begin to write my preliminary report.

**Tasks Completed:**

* I researched multiple different frameworks for neural networks in python so I could decide which would be best for my project. I concluded that a combination of PyTorch and scikit-learn would work well.
* I researched current methods for automatic hyperparameters optimisation including manual search, random search and Bayesian optimisation.
* I researched Gaussian Processes, as they are used in Bayesian optimisation.
* I became acquainted with LaTex.
* I read Tim Taylors guide on the preliminary project report.

**Tasks To be Completed by 01/02/2019:**

* Create a basic plan for my preliminary report.
  + Structure Diagram
  + Gantt Chart for project plan
* Go through Bayesian optimisation examples in python to better understand the intuition
* Choose a Bayesian optimisation library
* Write the algorithm of project as a diagram or written steps.
* Learn some basics of PyTorch.