**Weekly Log 01/02/2019**

**Supervisor Meeting:**

* I showed Rodger my compliance statement and it was approved.
* I explained to Rodger my reasons for using PyTorch.
* We spoke about my current progress shown in my weekly log and that I was doing adequate work.
* Rodger advised me to use to Learn.gold forums to ask questions on software for creating diagrams.

**Tasks Completed from Last Week’s List:**

* I created a basic plan for my preliminary report
  + I will go over this with Rodger in Tuesday’s meeting
* Write the algorithm of the project as a diagram or written steps
  + I wrote this out in steps and created a diagram to go with it
* Choose a Bayesian optimisation library
  + I chose SMAC as through reading papers is seems to perform the best when compared with auto-weka and Hyperopt
* Go through Bayesian optimisation examples in python to better understand the intuition
  + I went through the example at this location: <https://thuijskens.github.io/2016/12/29/bayesian-optimisation/> this greatly improved my understanding.
* Learn some basics of PyTorch
  + I created a modular neural network in PyTorch that when improved will be a part of my project
* Gantt Chart for project plan
  + I created a Gantt chart using teamgantt.com
* I completed the compliance statement

**Tasks To be Completed by 08/02/2019:**

* Write a draft for the introduction section of the PPR
* Write a draft for the aims & objectives section of the PPR
* Change the network in PyTorch to be compatible with SMAC
* Research which meta-features to use for the datasets to be stored in the hyperparameters database