**Instructions**:

**Software** **Requirements**:

* Anaconda 4.9.2
* Python 3.7.6
* Jupyter notebook 6.0.3

**Enivironment** **setup**:

Using Command prompt:

* Create environment in Anaconda using respro3.yml file
  + Command : conda env create -f respro2.yml
* Change directory to /finaImpl folder
* Create environment using
  + Command : conda env create -f respro3.yml
* Activate environment
  + Command : conda activate respro3
* Run juypyter notebook
  + Command : jupyter notebook
* Run tensorboard with same environment in /finaImpl folder path
  + Command : tensorboard --logdir logs/hparam\_tuning

**Steps of Execution**:

* Files in the folder /finaImpl/processed\_data can be deleted, however if deleted /finaImpl/preprocessing.ipynb needs to executed first to regenerate all processed data, else can be ignored.
* File /finaImpl/HyperParameterTuning.ipynb needs to executed before /finaImpl/Model Evaluation and Comparisons.ipynb , so that all MLP training models can be saved.
* File /finaImpl/EDA.ipynb can be executed without any other files being executed prior to that.

**The github code link is provided below**:

<https://github.com/mishal-tw/thesis_MLP_passenger_satisfaction/tree/main/finaImpl>