# READ-ME:

## Datasets:

1.For Regression problem the computer hardware dataset from UCI machine learning repository has been used, one can access the data through URL that directly loads the dataset from the website.
https://archive.ics.uci.edu/ml/machine-learning-databases/cpu-performance/machine.data

2.For classification problem the Indian liver patients dataset from UCI machine learning repository has been used. The .csv file of the dataset has been included in the zip file.

https://archive.ics.uci.edu/ml/machine-learning-databases/00225/

3.Download and save the liver dataset .csv file and ipython notebook in the same directory.

4. Run every cell to visualize all the results. The best performed techniques that we have implemented are thoroughly discussed in the word documentation submitted for two datasets.

5. Please install the below libraries to avoid errors.

- **Install seaborn** library in python using anaconda from the following command: conda install -c anaconda seaborn
- **Install ml-extend** library we used this for plotting and data visualizations: command: conda install -c conda-forge mlxtend
- **Install pydot** and graphviz for visualizing the decision Tree in our ipython notebook :

  Command: conda install -c https://conda.binstar.org/t/TOKEN/j14r pydot

  conda install -c conda-forge pydotplus

  Command: conda install -c anaconda graphviz

- **Install imbalanced-learn**: Command: conda install -c glemaitre imbalanced-learn