**Classification Algorithms:** Support Vector Machine, Decision Tree, Fisher Linear Discriminant, Logistic Regression, Nearest Neighbor Classifier, Naïve Bayes Classifier.

**Regression Algorithms:** Linear regression, Bayesian Linear Regression, Decision Tree, Exponential Regression and Inverse Gaussian Regression.

**Classification Datasets:** Breast Cancer Wisconsin (Original), Optical recognition of handwritten digits, data banknote authentication, Climate Model Dataset and Ecoli Datset.

**Regression Dataset:** Parkinsion’s Telemonitoring, Forest Fires and Yacht Hydrodynamics.

For each dataset, each person should identify the following that they think they will attempt: (i) size of training set, (ii) size of validation set if necessary, (iii) Size of test set, (iv) Number of features, (v) Number of classes.

These can be estimates and will obviously change before the final project is due.

For each algorithm, each person should identify a platform and code that they think they will use. These can and will obviously change before the final project is due. You can use different code and platform for different algorithm.

Each person can (and should) work on more algorithms and datasets than the minimal requirements above to have more points.

The project has two parts: In the first part, you have to submit a ***Hard Copy*** containing the list of algorithms and datasets and initial set of results. The ***Hard******Copy*** should be printed (***NO Handwriting***). The first report should be submitted on ***9th MARCH (Monday)*** in the class.

The second report should contain the detailed results, figures, algorithms and datasets. This should be submitted on the last day of the class. Again, you this should be a ***HARD COPY***.

**Please remember that no email/handwritten copy would be granted.**

**For the edge students, you should send the *.pdf* of your report to the TA.**

**His email is: *smislam@cise.ufl.edu*.**