**Data Mining Project**

**Prediction:**

In this project, we have used **PCA** for dimension reduction. We have also made some classifiers after cleaning of data to predict some of the important things that will be used to get suggestion:

1. Random Forest for Predicting Y class.
2. Random Forest for Predicting Flight will reach on time or not.
3. Random Forest for Predicting Flight will arrive on time before departure.

These are the classifiers which we have made to predict some useful things from data. We can also make some other classifiers like mentioned above.

We have also used some regression techniques to make models like:

1. Linear Regression
2. Poly Regression
3. Comparison b/w Linear and Poly Regression

We have used Validation technique to select best **Hyperparameters**.

**Evaluation:**

We have used **Confusion Matrix** to check the precision and recall for classifier models. We have also used graphs and show the performance of model on different degrees.

**NOTE: The above things are included in Project.ipynb file.**

**Useful Information:**

The Information like which are best business Airports, which airline provide best service, which airline have maximum delays over a certain period etc. are provided in **Graphs.ipynb** and details are also provided in that file.