**IMPLEMENTATION:**

**MODULES:**

* User
* Admin
* EDA
* Machine Learning Results

**MODULES DESCRIPTION:**

**User:**

The User can register the first. While registering he required a valid user email and mobile for further communications. Once the user register then admin can activate the user. Once admin activated the user then user can login into our system. User can upload the dataset based on our dataset column matched. For algorithm execution data must be in float format. Here we took cryptocurrency dataset. User can also add the new data for existing dataset based on our Django application. User can click the Classification in the web page so that the data calculated Accuracy, Recall and F1-Score based on the algorithms.

**Admin:**

Admin can login with his login details. Admin can activate the registered users. Once he activate then only the user can login into our system. Admin can view the overall data in the browser. Admin can click the Results in the web page so calculated Accuracy, Recall and F1-Score based on the algorithms is displayed. All algorithms execution complete then admin can see the overall accuracy in web page.

**EDA(**Exploratory Data Analysis**)**

The main objective of this analysis is to select a proper classification model that can optimize the use of the data. Accordingly, the features with the classes are analysed in the following sense:

• Data linearity: that is ifit is possible to separate them by a hyperplane.

• Assessing the statistical distribution ofthe data; that is the probability mass function ofpJsjVQ^Vj, k.

Assessing the distribution of the classes' prior probabilities i.e. p(C!)Vfc.

• Assessing the time-dependency to capture any time relationship between the features and the classes (applicability of sequential data models). Note that for illustration in this section, only AAPL and IBM daily data are discussed although that same process was applied on other assets.

**Machine learning Results**:

Based on the split criterion, the cleansed data is split into 60% training and 40% test, then the dataset is subjected to two machine learning classifiers such as Naive Bayes(NB), random forest(RF), ANN. The accuracy of the classifiers was calculated and displayed in my results. The classifier which bags up the highest accuracy could be determined as the best classifier.