**IMPLEMENTATION:**

**MODULES:**

* User
* Admin
* Prediction Using Decision Tree
* 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 pune internet bandwidth matched. For algorithm execution data must be in float format. Here we took college graduates 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 R2\_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 R2\_Score based on the algorithms is displayed. All algorithms execution complete then admin can see the overall accuracy in web page.

**Prediction Using Decision Tree:**

Algorithm Step 1: Import Numpy, Pandas and matplotlib libraries. Step 2: Import the dataset using pd.read\_csv() method Step 3: Pre-processing of dataset, data cleaning if necessary Step 4: Select all input parameters from dataset as x and all output parameter as y Step 5: Apply train\_test\_split in order to create training and testing parameters. We are using test\_size = 1/3 Step 6: Train the decision tree regression model on training set Step 7: Predict values using predict () method Step 8: Compare real values with predicted values Step 9: Visualize decision tree prediction. Fig.3 shows comparison of actual and predicted data on each LAC. In fig.3 Blue line indicates Actual data while orange line indicates predicted data. Prediction is carried out by using Decision Tree algorithm. With reference to above graph, we analyze accuracy of Decision Tree algorithm in our problem. If actual and predicted lines match then accuracy is higher. But in our graph actual and predicted lines somewhat differ from each other.

**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 one machine learning classifiers such as Decision Tree(DT). The R2\_score of the classifiers was calculated and displayed in my results. The classifier which bags up the highest R2\_score could be determined as the best classifier.