**Approach to reach my final model**

**Approach 1:** While developing this Happy Customer Banking Problem model, Initially I tried with Logistic Regression But, I got very less accuracy i,e 75.80% So that I moved and selected Random Forest Algorithm, even though I got same Accuracy i,e 75.80% So finally I chosen Random-Forest Cross-Validation K-fold method So I got good accuracy i,e. 77.85% with less mean squared error (MSE-0.22140604334113337) And Root Mean Squared Error(0.4705380360195479). Along with this, I found roc Curve (area=0.62).

**Approach 2:** I havegone through the data preprocessing and as per problem definition, ID variable is not a part of model so I removed it and found 12522 NA values in Credit\_Product Column so replaced those NA values with mode values along with this, I went out to find the correlation between dependent and Independent variables.

**Approach 3:** Final Model is look like good result with accuracy 77.85% And I discovered final sorted submission file which contains first 14094 rows are positive predictions(Probability of Customer showing interest) for the target variable and remaining rows contains probability of Customer showing not interest(0).