WEEKLY REPORT

Dear Mohamed Hussein

In the below Table you will see a specified table that includes the good, the bad & the improvements that can be done on your Classification Task

Correctly Done	Can Be Improved
• **Scaling** • **Encoding** • **Feature engineering** • **Handle Outlier** • **Handle Imbalanced** • **Applying Good Algorithms** • **Visualize their importance**	• **You can apply other techniques for outlier as transformation (log), capping, fill by median (try and determine the good one)** • **Handle multicollinearity using drop cols with high vif or pca (not necessary to increase performance, the integrity will be)** • **You can try encoding using one-hot, label or manual encoder as type1:1, type2:2,…** • **You can use grid-search for more hyper tunning** • **You can apply cross-validation to know genera performance of model on all data** • **Split data into train and test before any preprocessing** • **You can add more features as total_members, total_night, percent_can((p_c)/(p_c + p_not_c)**

Signature