Neo Data Analysis.

Problem statement: A company name “Neo” is a telecom company whose customers are churning out to its competitors. Analyze the data of your company and find insights and stop your customers from churning out to other telecom companies.

The task to be done: 1. Data pre-processing. 2. Data visualization.

3. Linear Regression. 4. Logistic regression. 5. Decision Tree.

6. Random forest.

The task performed: 1. After the data is exported and we clean the data and check for the null or the missing values in our data so the data must be clean and ready for further analysis.

2. In this project we have presented 4 kinds of data visuals, which include the bar plot, histogram, boxplot, and scatter plot for the linear regression.

3. I have Built a simple linear model where the dependent variable is ‘Monthly- Charges’ and the independent variable is ‘tenure’.

4. Build a simple logistic regression model where the dependent variable is ‘Churn’ & independent variable is ‘Monthly Charges’.

5. Decision tree model where the dependent variable is ‘Churn’ & independent the variable is ‘tenure’

6. Built a Random Forest model.

Result: We built different types of data visualization which gave us some useful data insights regarding our data. And then we built the machine learning models which are used for statistical data insights and for the further prediction of the data. this model helps us to understand the relationship between the various components of the data. This kind of data is reviewed by the business analyst and the stakeholders to take decisions for the betterment of the company.