

CUSTOMER CHURN PROJECT



Business Overview

Safana Telecoms is among the leading company in Syria that provides telecommunication services in the country





Problem Statement

- The company has faced significant challenge of customer churning and wants to understand the cause of this change.
- This project will focus on identifying patterns in customers' behavior that will identify predictable patterns in customer behaviours



Objectives



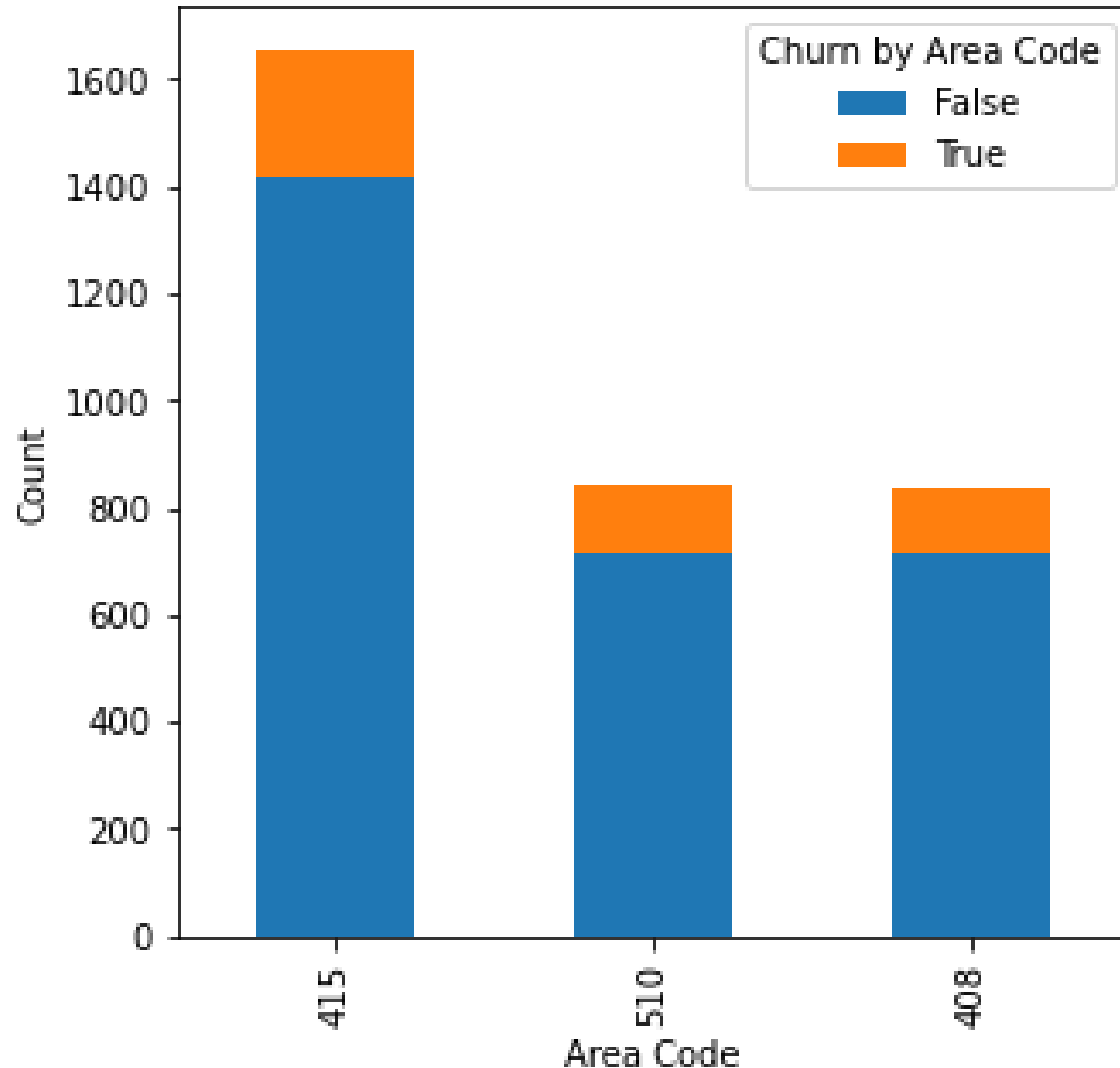
- This project aims to create a classification model that determines customer churning
- To identify features to help retain customer

Data Set

The dataset used in this project is from Syria.

The data contains 21 different features and a **3333** entries





- The Graph shows the Churning rate by Area code with Area 415 having the highest churning rate

Modeling

The Various modeling algorithms used were:

- Logistic Regression(Baseline model)
- Random Forest
- DecisionTreeClassifier
- K Neighbor

Final model

- Out of the four models Random forest had the best performance after evaluating the four models.
- The random forest has an accuracy score of 84% showing that the model could predict accurately unseen data at 84%.