Customer Churn Prediction using Machine Learning

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Problem

Retaining customers costs less than acquiring new ones. The purpose of this project is to identify players of People's Postcode Lottery that are more likely to churn- cancel their subscription- the following month in order for the relevant departments to target those players and try to retain them.

Objectives

- Gain insights about the characteristics of customers that churn by finding and understanding any clear patterns.
- Create useful visualisation that would demonstrate the relationships between the data to the relevant departments and stakeholders.





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Process

Data Mining

Extract raw data from different sources inside the company

Feature Engineering

Compute the features that will be used as predictors and the target variable Churn (Yes/No)

Visualisation

Visualise the data to identify any clear patterns between the variables

Train Models

Build probabilistic classifiers that will predict the likelihood of a customer to churn

Evaluate Models

Evaluate the models on unseen data using different metrics (recall, precision) and confusion matrices





BE THE DIFFERENCE

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