

Customer Churn Prediction using Machine Learning

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Problem

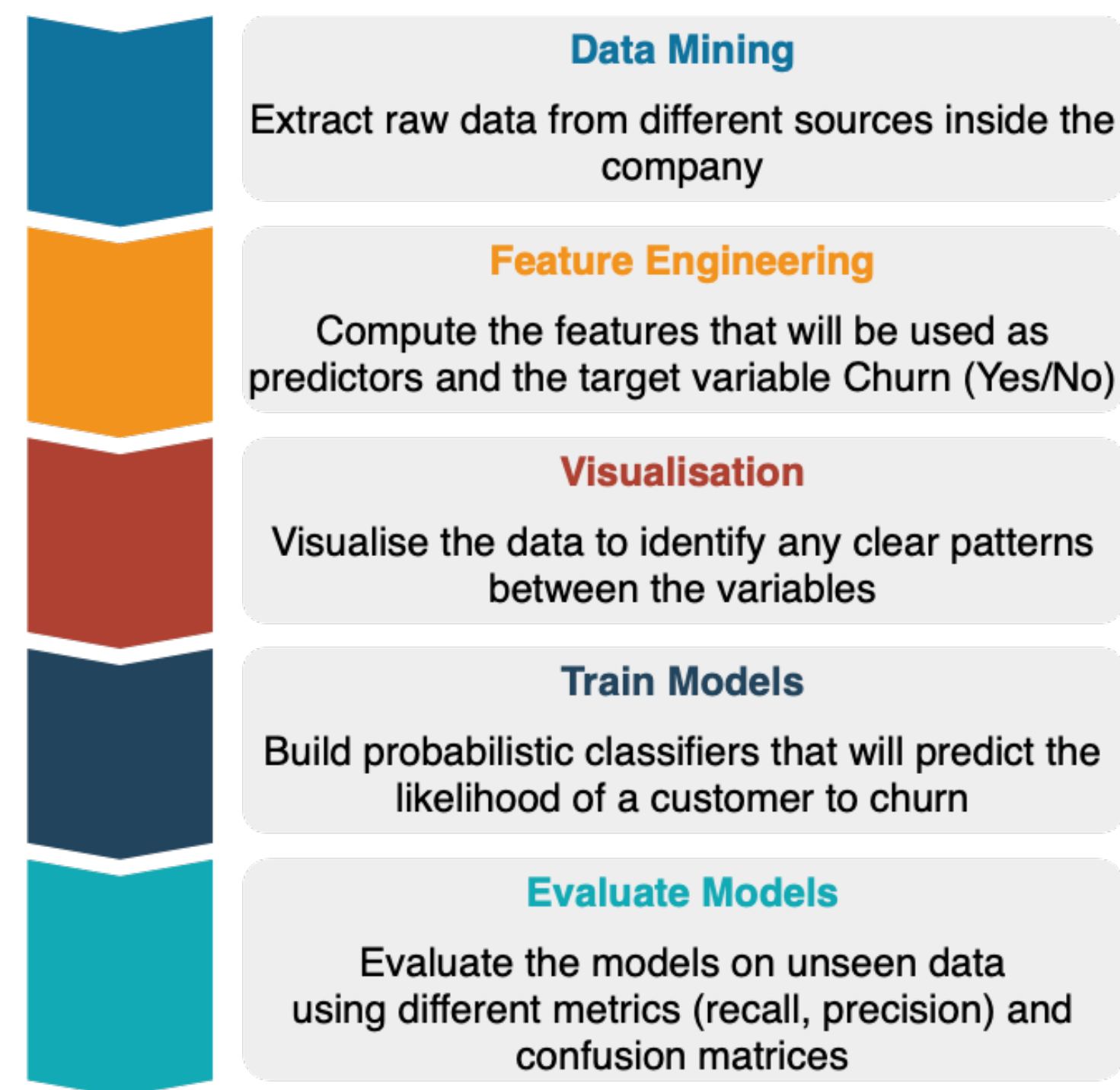
Retaining customers costs less than acquiring new ones. The purpose of this project is to identify players of **People's Postcode Lottery** that are more likely to churn- cancel their subscription- the following month in order for the relevant departments to target those players and try to retain them.



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.
- Build and evaluate different machine learning models (logistic regression, random forest, support vector machine, neural network) to find the most efficient one for the particular problem.

Process



pandas
 $y_{it} = \beta^T x_{it} + \mu_i + \epsilon_{it}$

