Customer Churn

Prediction Modelling



Business Problem

- Customer churn is a big problem which can lead to financial losses.
- Identify customer churn.
- Reduce customer churn.
- Increase customer loyalty (retention).



Customer Churn

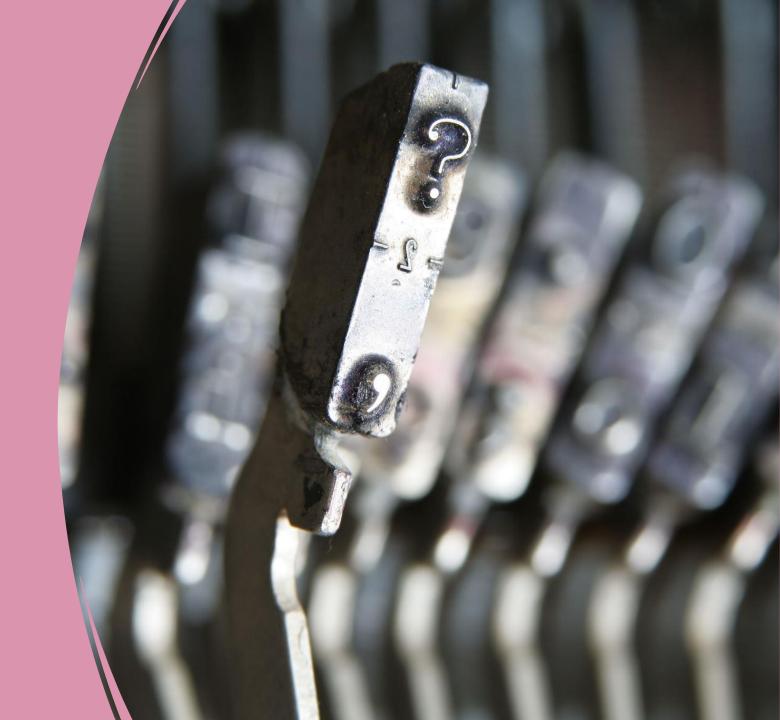
 Identify factors which leads customers to stop the use of a service by switching to a rival service, switching to a lower-tier experience in the service or reducing engagement with the service.

Customer Retention

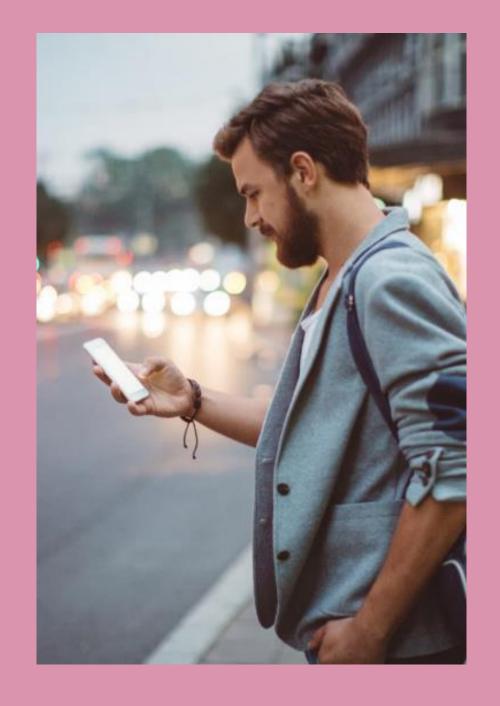
 Identify factors to retain customers over some specified period.

Predictive Modelling

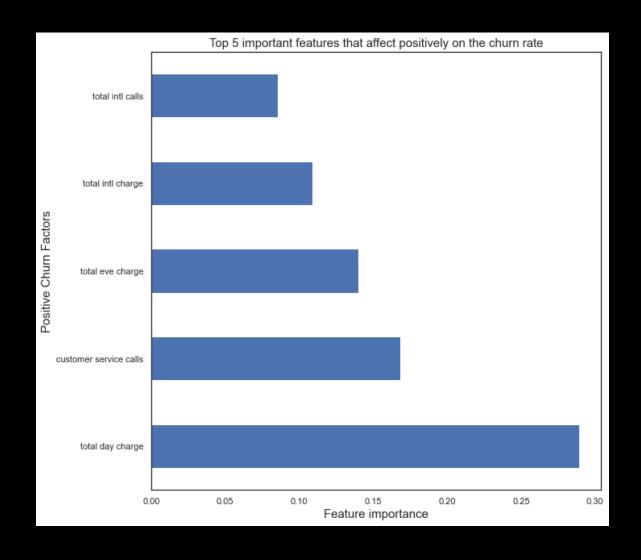
Machine learning models were used to answer questions of our business problem with accuracy 85%-100%.



What are the most important factors in customer churn?



Factors increasing customer churn

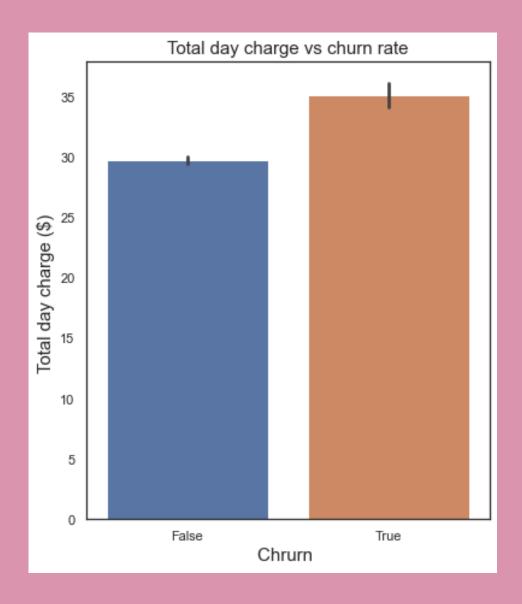


Customer Churn

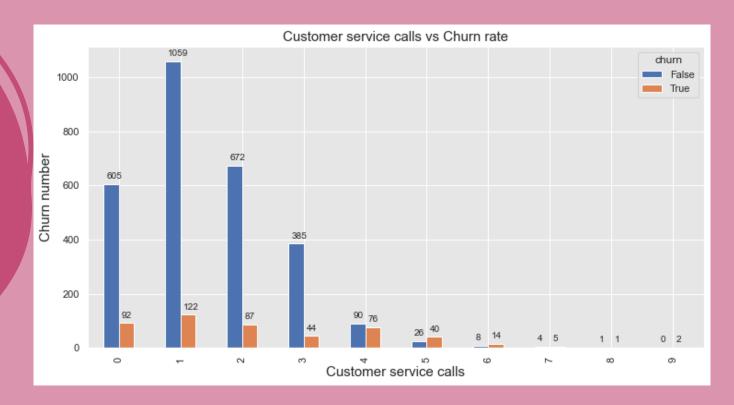
- Total day charge
- Customer service calls
- Total evening charge
- Total international charge
- Total international calls



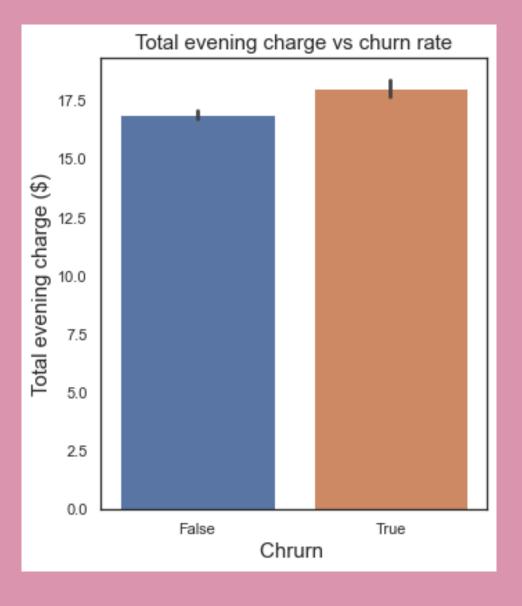
Total Day Charge



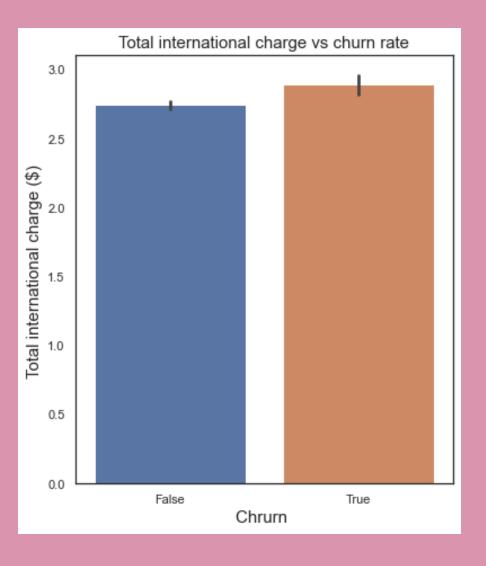
Customer Service calls



Total Evening Charge



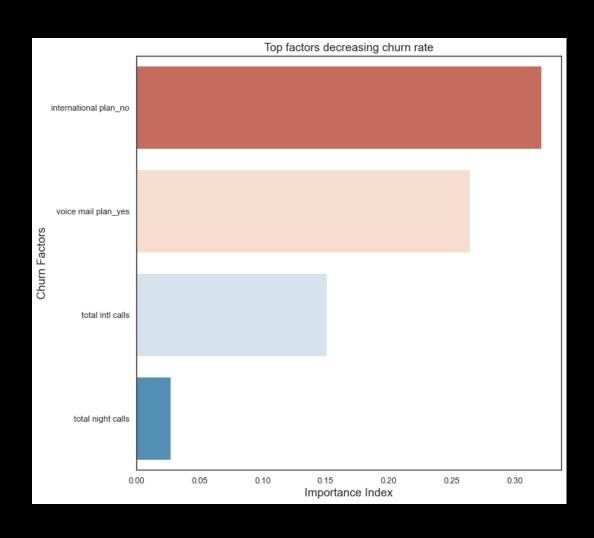
Total International Charge



What are the most important factors in customer retention?



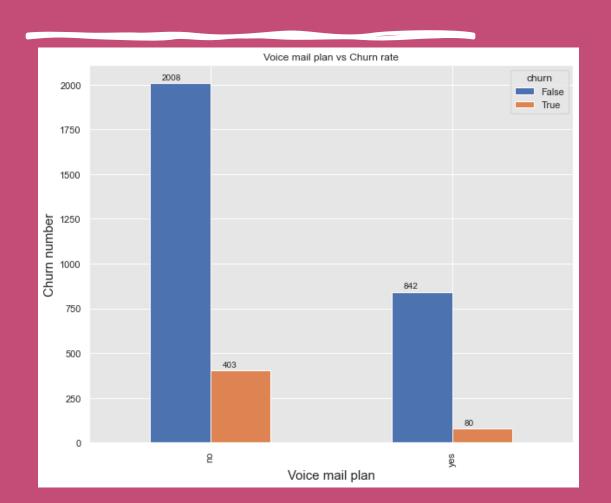
Factors decreasing customer churn



Customer Retention

- No international plan
- Have a Voice mail plan
- State location
- Total international calls
- Total night calls

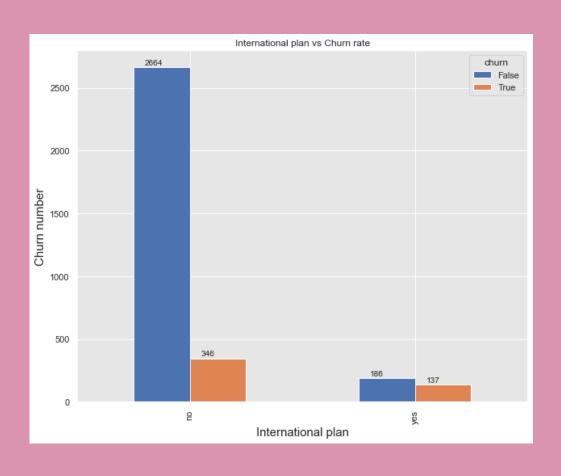
Voice Mail Plan







International Plan





Conclusion





Churn prediction machine learning models gave answers for our churn problem

factors affecting Churn: Total day, evening and international charge, customer service calls



Recommendations

Decrease call charge for day and special charges for evening calls.

Have a better international plan.

Customer service calls is a measure usually for bad experience. Improve the quality of phone service.

Compete with rival companies and provide better offers i.e., competing voice mail plan.



