

Sprint 1 report

By: Mitchell McCallum

Loyalty Pays...











CUSTOMERS LIVE IN A WORLD OF CHOICE





WHICH LEADS TO A LOYALTY GAP



Understanding Customer Churn in Telecoms



Introduction to the Telecom Industry

A competitive industry.

Customer retention is key!



Problem Statement

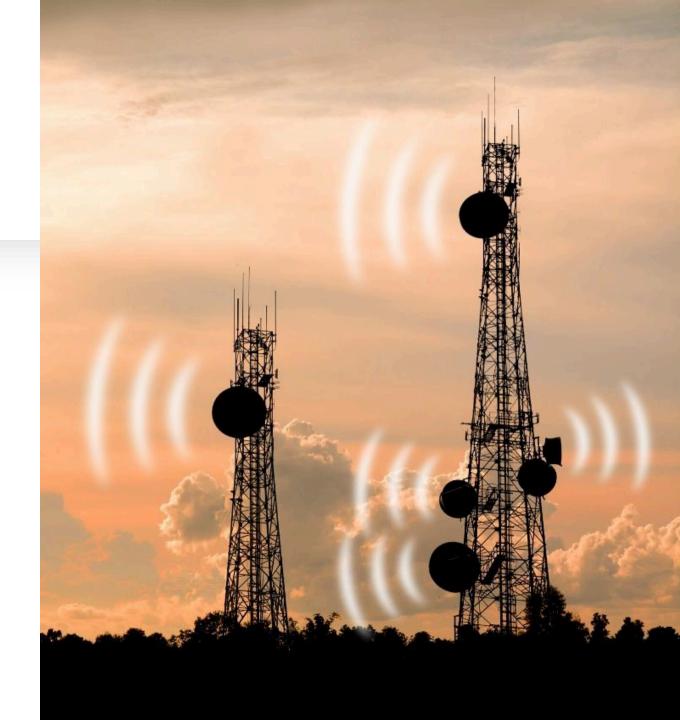
Customer churn costs money!



Opportunity

Data to predict and reduce churn.

Improve brand image.





Data-Driven Approach to Reduce Churn



Role of Data Science

Identify trends based on operations produced data



Predictive Modeling

Machine learning allows computers to predict outcomes based on data it has already seen



Actionable Insights

Predictive modeling is a source of valuable information to inform company strategy.



Impact of Predicting and Reducing Churn



Business Impact

Churn rates to drop to a range between 21.54%-16.54% a

decrease of 10%-5%.

Savings in marketing and acquisition.



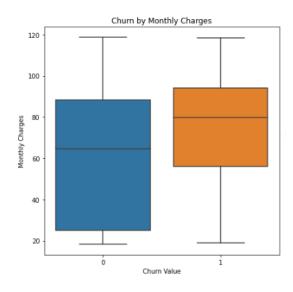
Customer Satisfaction

Personalized retention strategies can lead to improved customer experience and loyalty

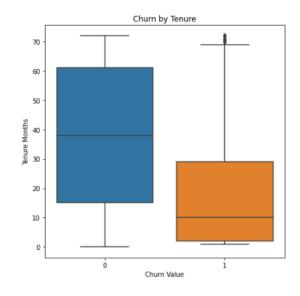




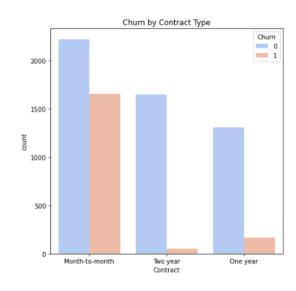
Dataset Overview and Initial Insights



Higher clustering of charges For those who do churn



Churn clustered around newer customer



Churn rates decline dramatically for contracts



Roadmap for Advanced Analysis

- Data Preparation:
- **Feature Engineering:**
- Baseline Modeling:
- Iterative Improvement: