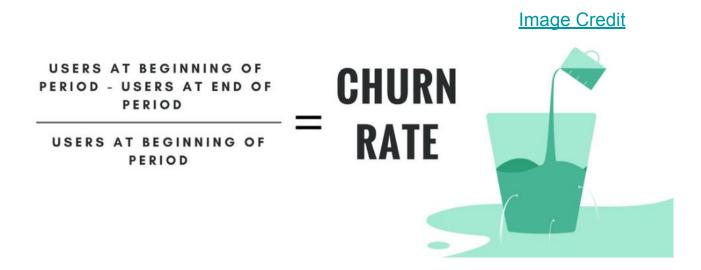
Customer Retention Model

N0000! don't leave me!

Alexis Deviney

Image Credit



Business Objective: Deploy customer retention strategies based on predictive insights to reduce customer churn

- Profitability
- Customer Satisfaction
- Customer Retention

Customer Data (IBM Cogno Analytics)

Demographic information

- Gender
- Senior Citizen
- Partnered/Single
- Dependents
- Location (Zip Code, lat/long)

Account information

- Account Tenure
- Contract Length
- Paperless Billing
- Payment Method
- Monthly Charges
- Total Charges



Image Credit

Services

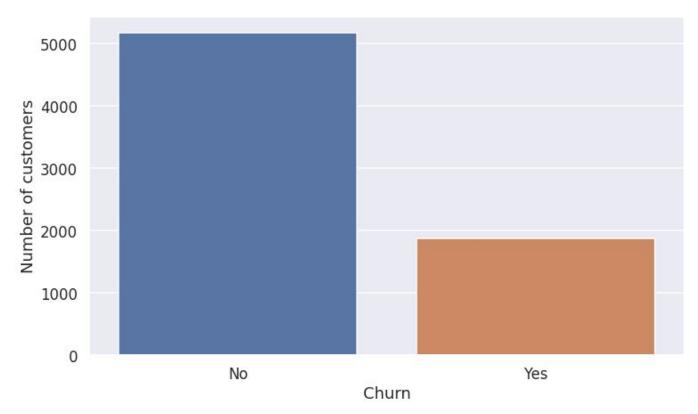
- Core
 - Phone Service
 - Internet Service
- Add-ons
 - Multiple Lines
 - Online Security, Online Backup
 - Device Protection, Tech Support
 - TV Streaming, Movie Streaming

Target

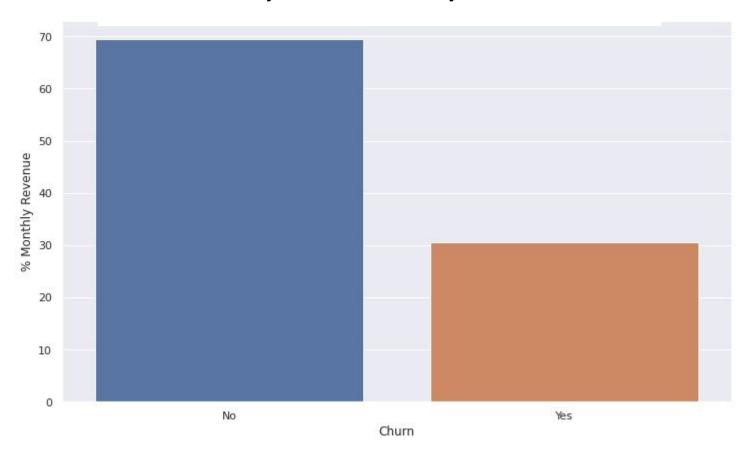
- Churn Status
- Churn Reason

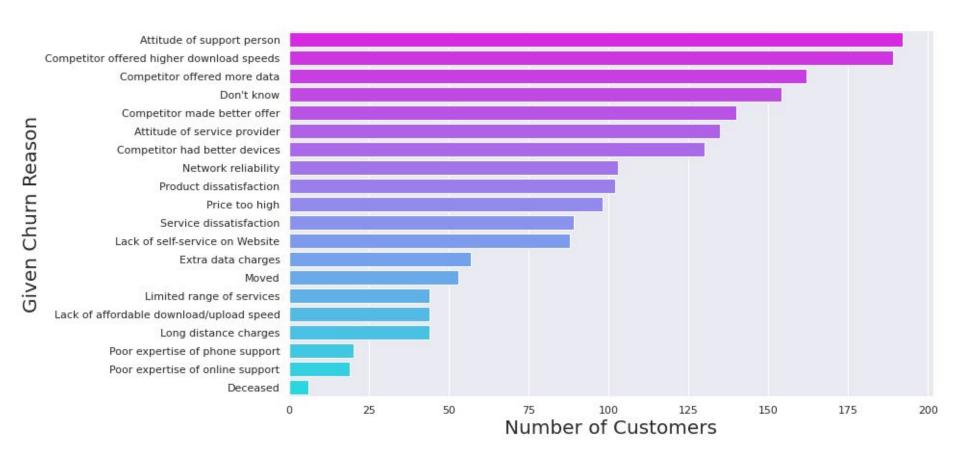
Current State of Affairs

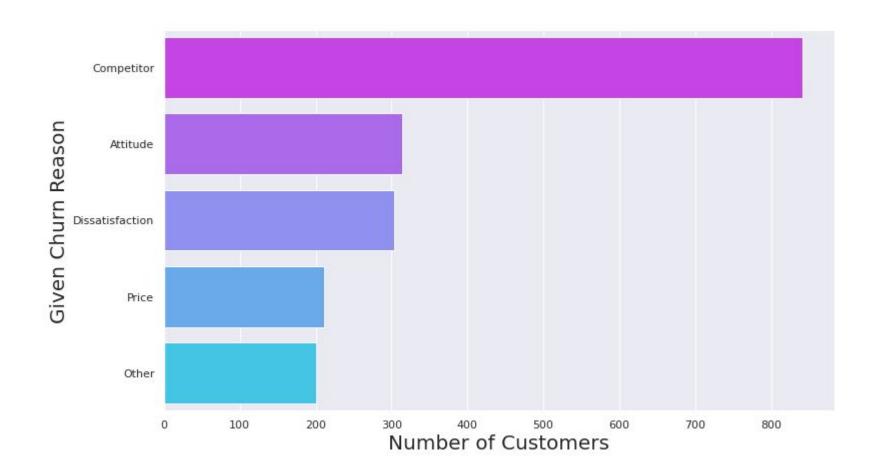
27% Churn Rate

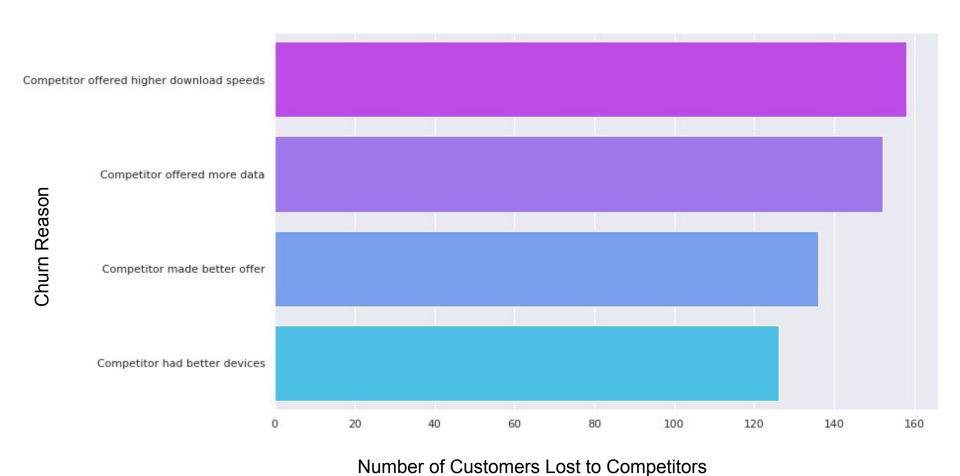


31% of monthly revenue is lost by churned customers.

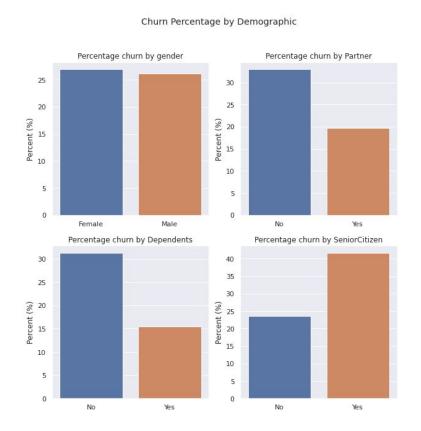


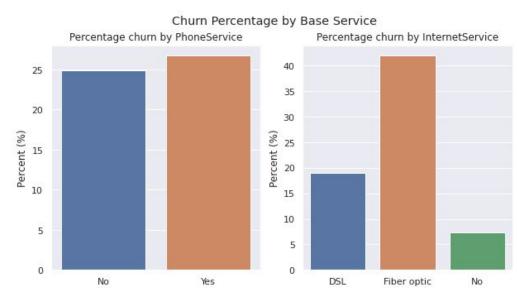




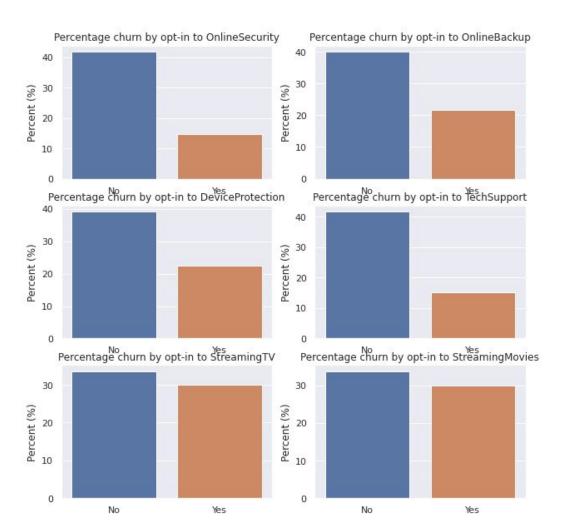


Highest Churn Correlations





Churn Percentage by all Internet Customers



Production Model Metrics

Depending on the application...

Model Number	Out of all churned customers, how many does the model actually predict?	Out of all predicted customers to churn, how many will actually churn?	Overall Accuracy	Possible Application
1	83.3%	53%	75.5%	General, low-cost approaches
2	58%	68%	81.3%	Aggressive outreach

Final Recommendations

- Expand Data Collection
 - Service Utilization, Devices, Customer Service Tickets
 - o Demographics Home Ownership, Income
 - Customer Lifetime Value and Engagement
- Competition Analysis
 - Download speeds, data, device offerings, upgrade/renewal offers
- Develop a 2-pronged outreach approach to those who are at risk of churning
 - General retention outreach with customers who have been predicted by wide-net model
 - Offer proactive discounts or add-on services to most-likely-to-churn customers predicted by a precise model

"Your most unhappy customers are your greatest source of learning."

- Bill Gates

