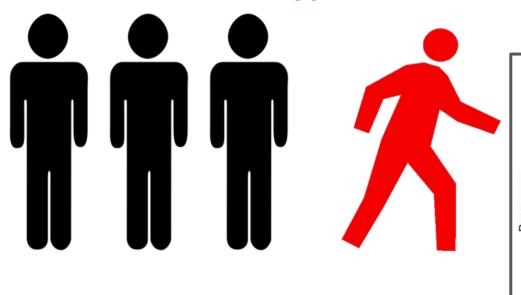
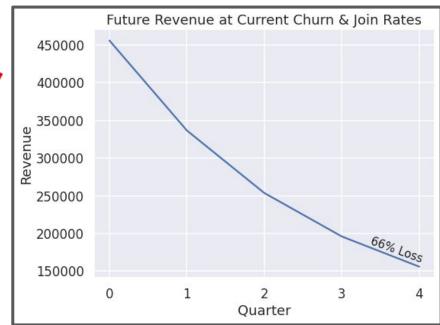
# Customer Retention Model



Alexis Deviney

## 27% Churn Rate





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

## 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



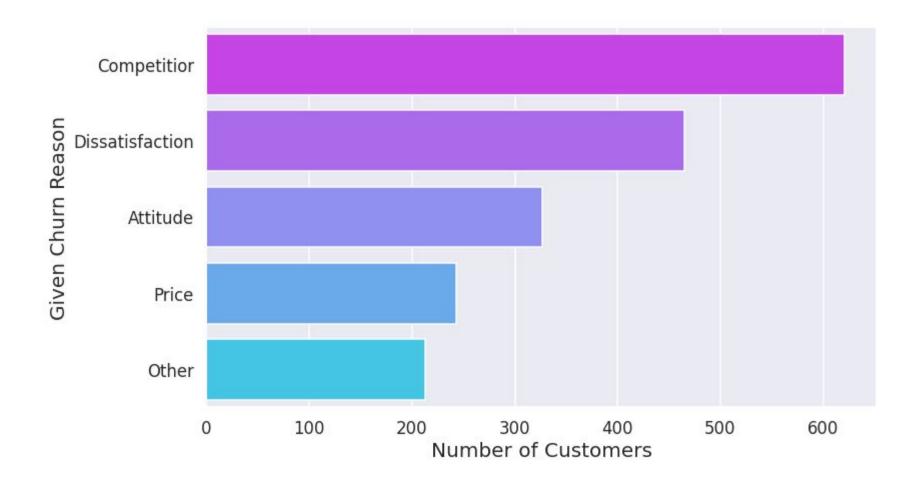
**Image Credit** 

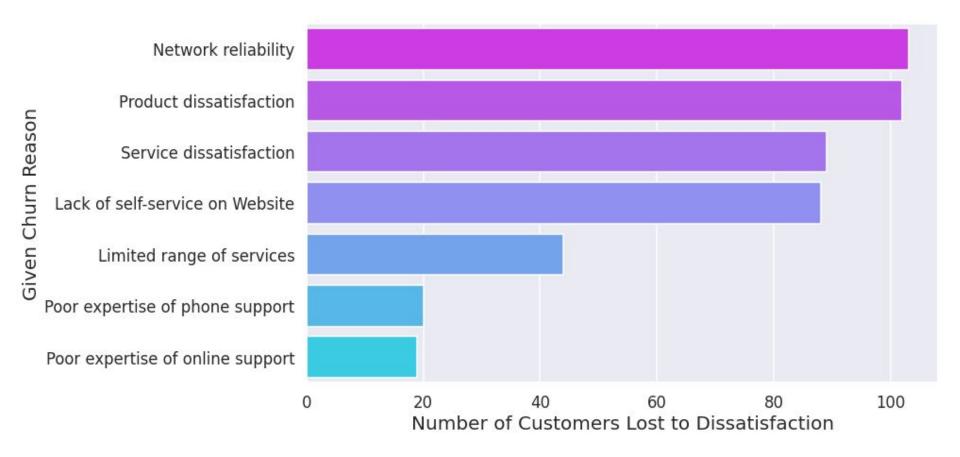
#### Services

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

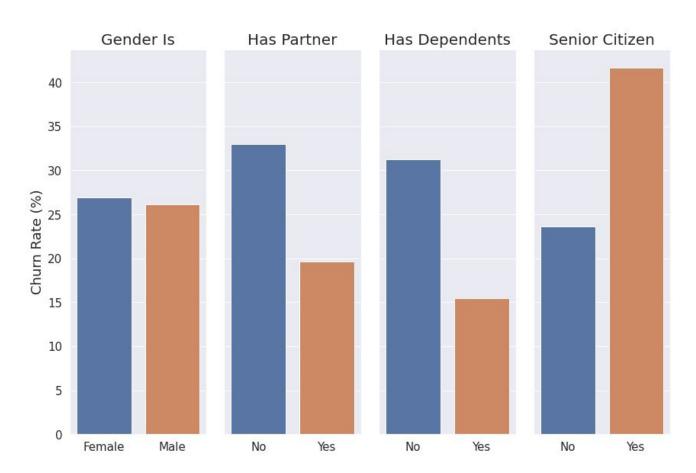
### Target

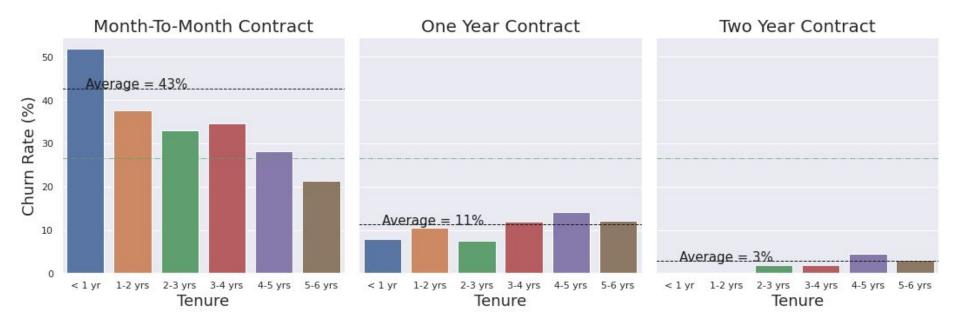
- Churn Status
- Churn Reason

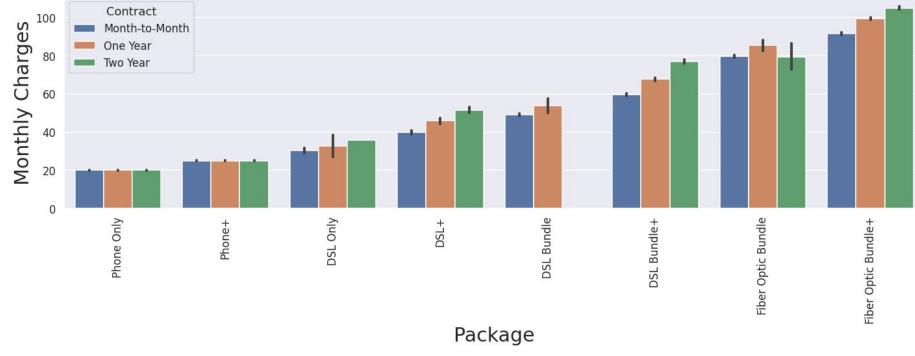




## **Demographic Insights**

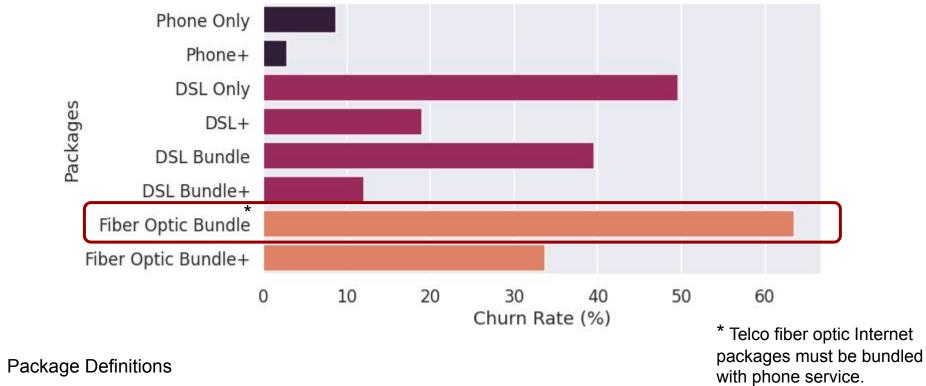






#### Package Definitions

+	Subscription to one or more premium services Phone: Multiple Lines Internet: Online Security, Online Backup, Device Protection, or Tech Support
Bundle	Phone + Internet



	with phone servic		
+	Subscription to one or more premium services Phone: Multiple Lines Internet: Online Security, Online Backup, Device Protection, or Tech Support		
Bundle	Phone + Internet		

### **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, new-customer offers, location coverage
- Invest in network reliability and new products
- Discourage month-to-month contracts
- Advertise premium services
- 2-pronged approach for customers predicted to churn
  - o 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

## Thank you!

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

- Bill Gates

