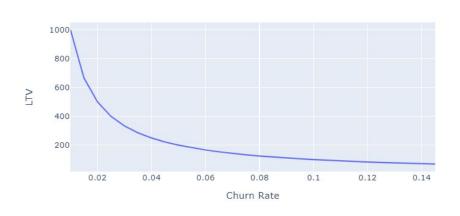
# SyriaTel Churn Analysis

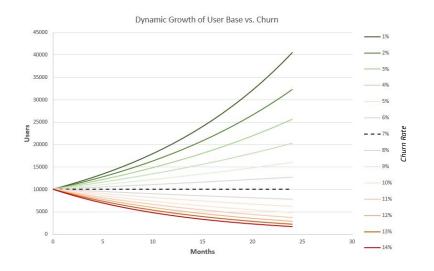
John O'Donnell

### Purpose

#### Better understand churn to improve user retention

- Churn can make or break a subscription business
  - It dictates customer tenure, customer value, and growth of user base/revenue
- Better understanding churn allows us to make targeted actions to retain customers

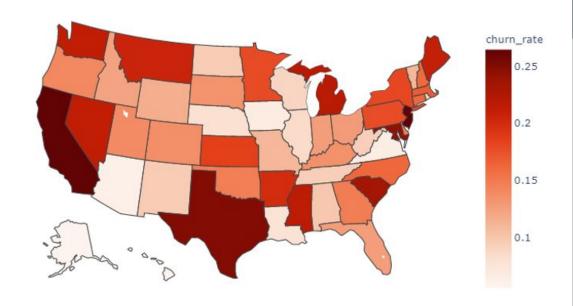




## Early Findings

Churn varies significantly across the United States

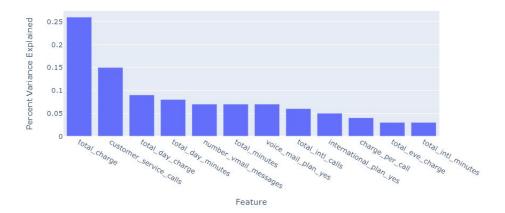
- High Churn States:
  - CA, TX, NJ
- Low Churn States:
  - HI, AZ, VA
- Drivers:
  - User differences
  - Service difference
- Future Work



#### Model Performance

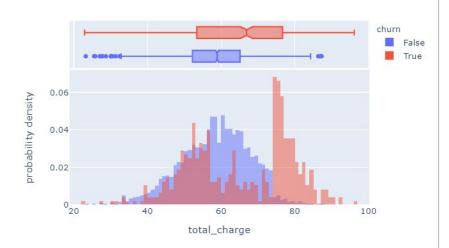
#### Benchmarking Performance

- Overall accuracy of prediction is > 95%
- Model able to predict if a customer will not churn with 99% accuracy
- Model able to predict if a customer will churn with 85% accuracy
- Most important features were Total Charge and Customer Service Calls



### Important Features

Total Charge and Customer Service calls



 Majority of customers charged > \$75 in a month will churn

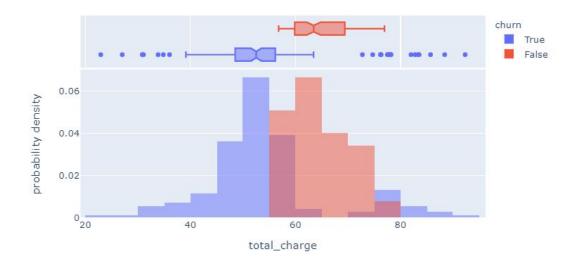


 Majority of customers placing 4 or more customer service calls will churn

### Overcharging Frustrated Customers

Showing total charge for customers with >3 service calls

- Combining total charge and number of customer service calls clearly separates the groups
- A great way to churn a customer is to make them feel overcharged when they are feeling frustrated ( > 3 customer service calls)



#### Recommendations

#### Pricing Strategy and Data Gathering

- Pricing:
  - Provide discounts to "frustrated customers"
  - Tier rate plan
    - Ex: After first 200 day minutes cost per minute drops in half
- Data Gathering:
  - More = always better
    - With more data a more simple and interpretable model can be used
  - Time-series data to track customer life cycle
  - Service data by state (coverage)
  - Service call information (length, time, subject)

# Thank You

Questions?