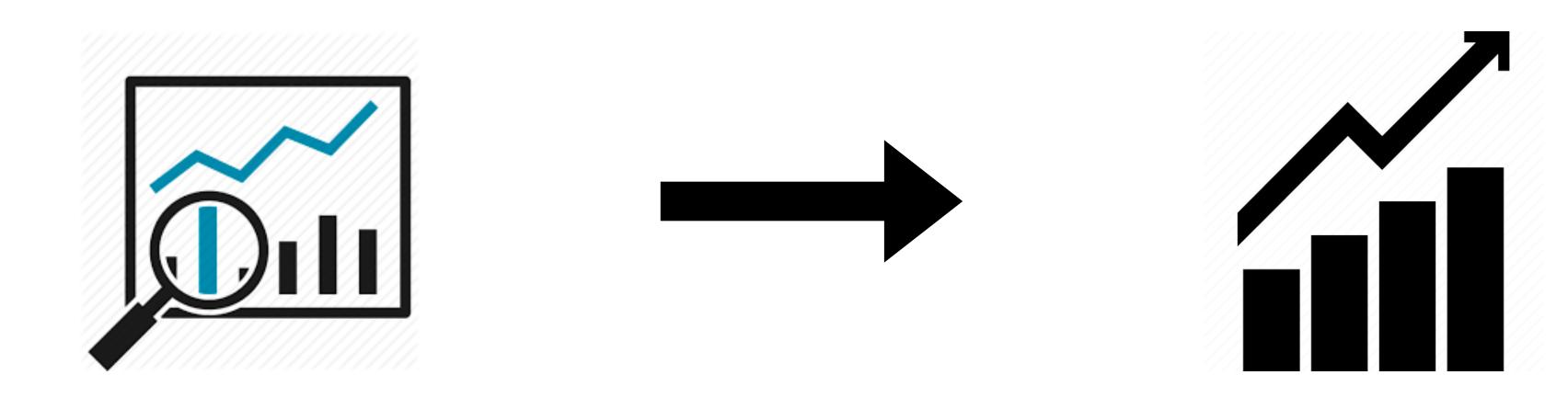
SyriaTel

Customer Analysis

Project Overview

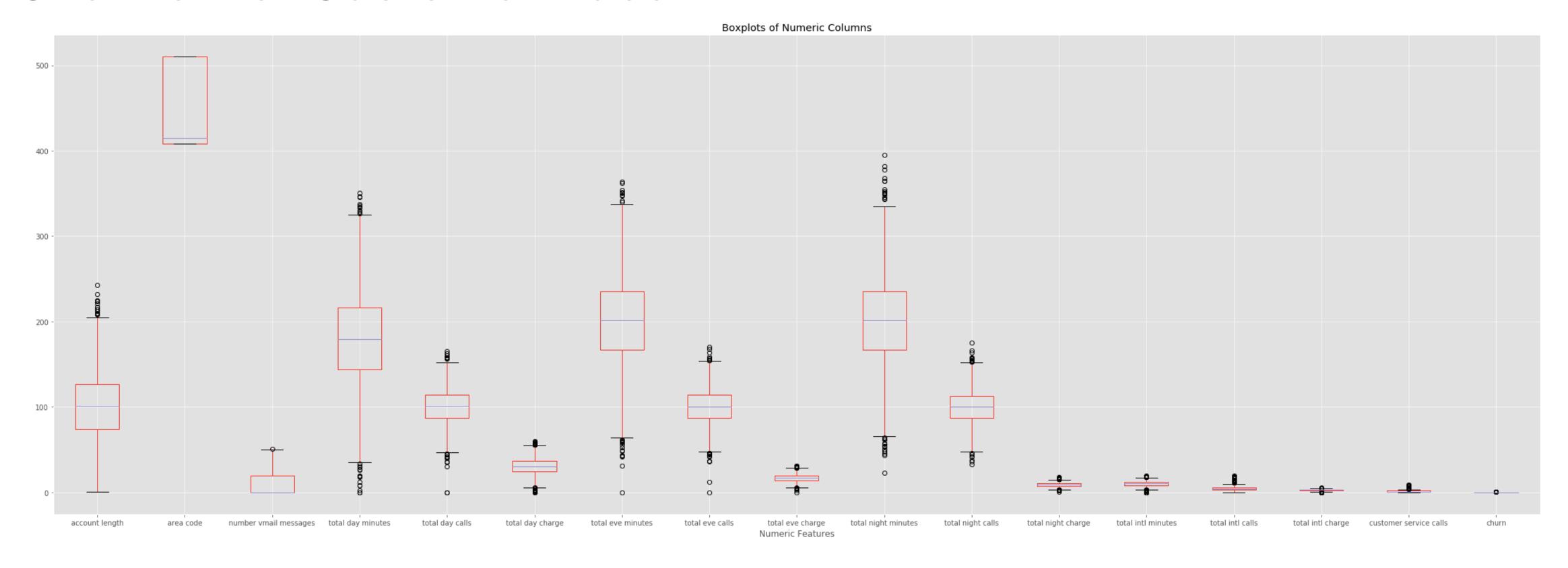


- Leverage SyriaTel customer data to identify underlying trends / patterns in data.
- Understand breakdown of SyriaTel customer base today

- Uncover relationships between existing customer data and churn / customer retention
- Targeted list of at-risk customers to be targeted
- List of customers least-likely to churn may be prime candidates for price raises, etc.

The Data

Overview of Customer Base



Total Customer Records: 3,333

Median Account Length: 101

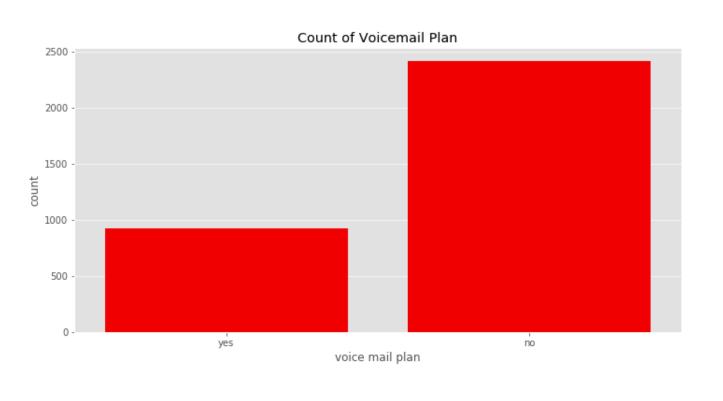
Median Total Day Minutes: 179.4

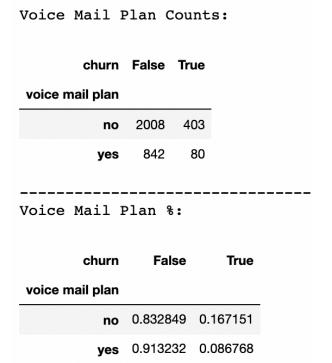
Median Total Evening Minutes: 201.4

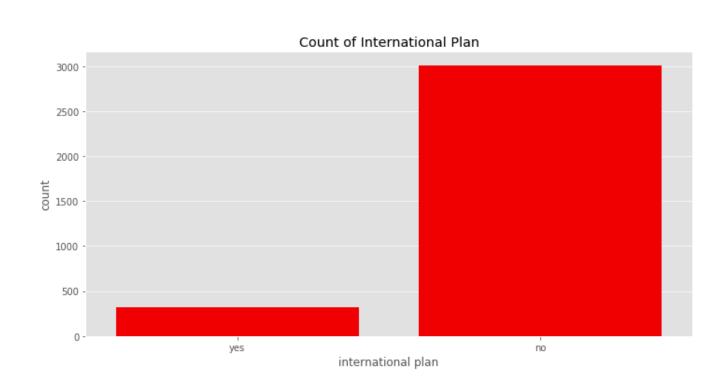
Median Total Night Minutes: 201.2

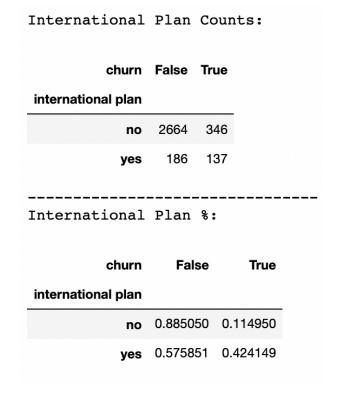
The Data

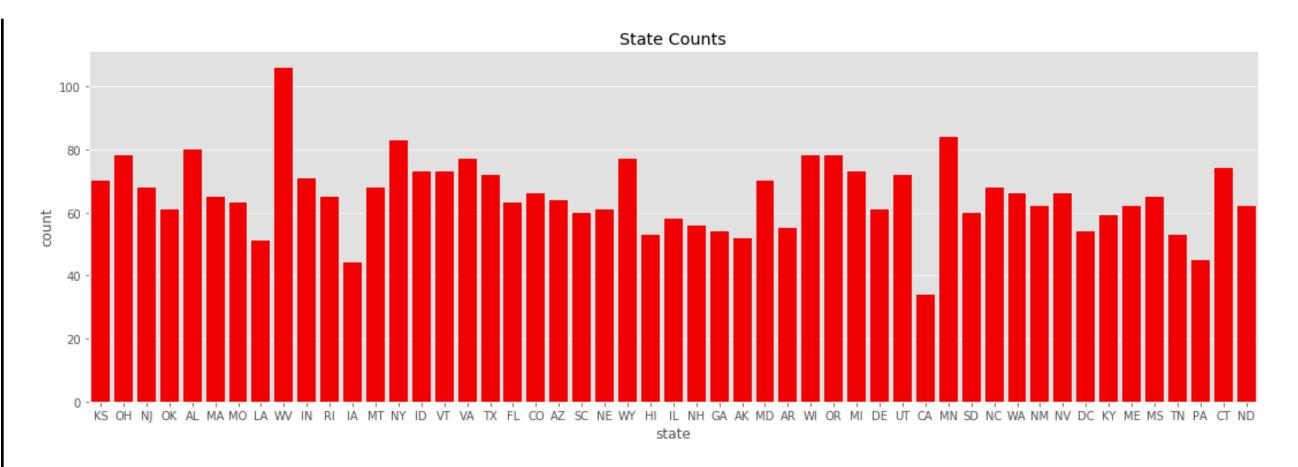
Overview of Customer Base (Cont'd)

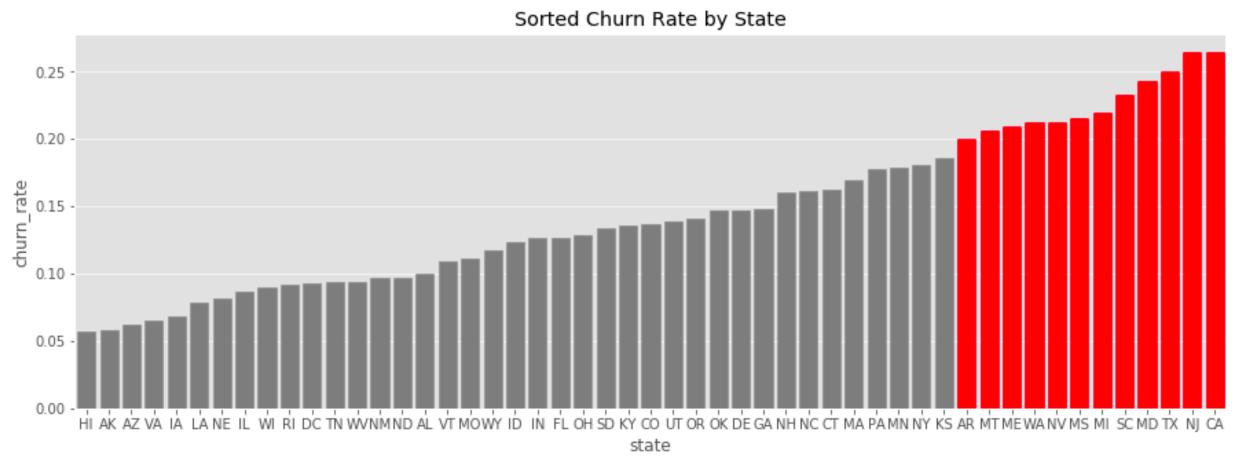






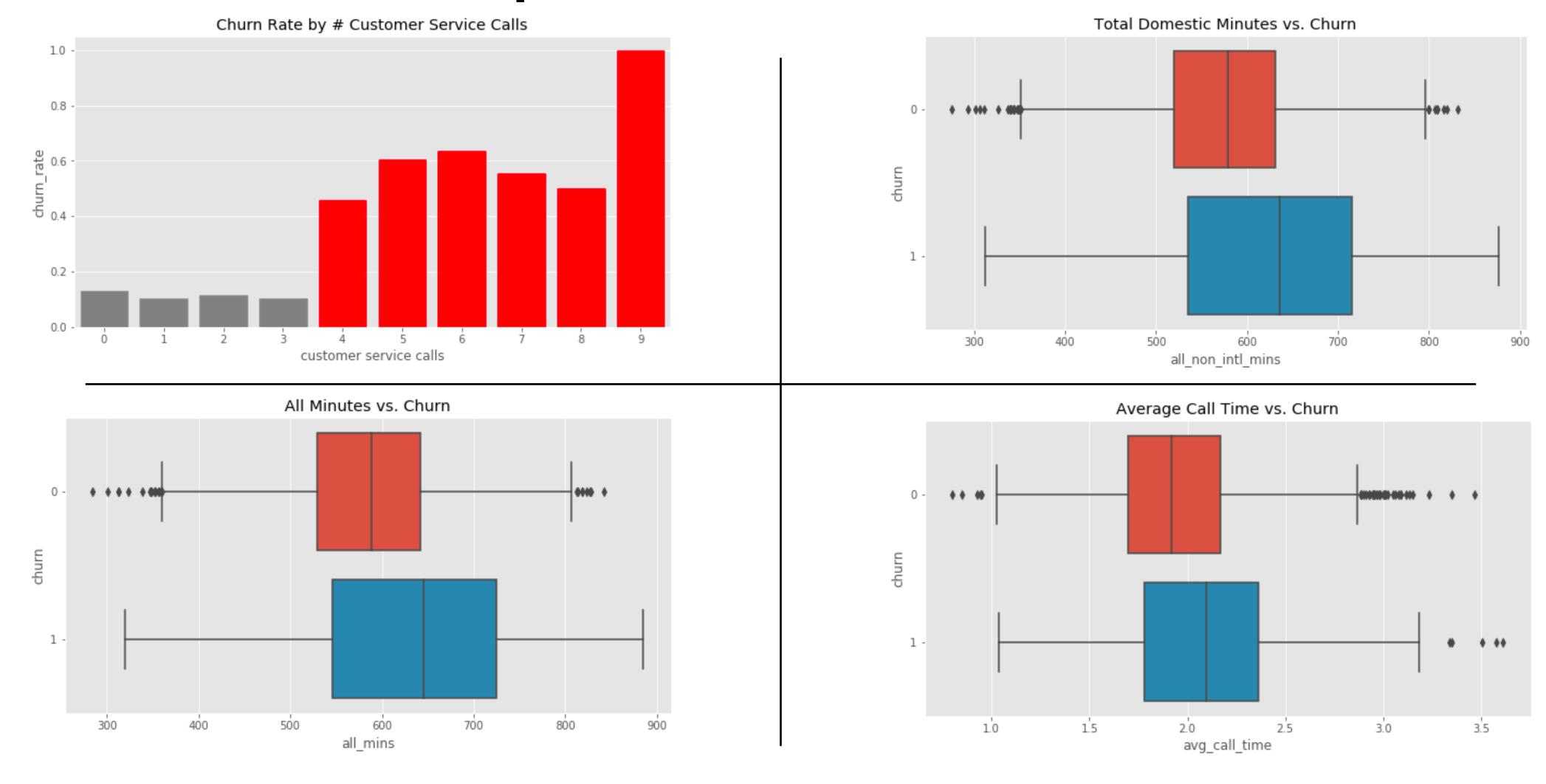






Data

Trends and Relationships



Evaluation

Final Model Performance & Feature Importance

Recall:	76%
Precision:	81%
Accuracy:	94%

Recommendations

- Use generated target list for at-risk customer outreach and targeted promotions
- Consider raising prices / implementing additional programs to increase revenue and rev per user on these customers
- Closely monitor customers with more than 2 customer service calls

Additional Areas for Future Work

- Add time element to data to understand when customers will churn
- Collect additional data fields from customers to improve predictive performance (reasons for churn if available, etc.)
- Compare cellular signal strength with churn data / investigate competitive options in similar regions



Thanks!