SyriaTel Customer Churn Analysis

Flatiron Phase 3 Project By: Rachael Bryant

Business Problem



- Determine the best predictors of 'churn' (customers stopping business with them)
- Recommend solutions

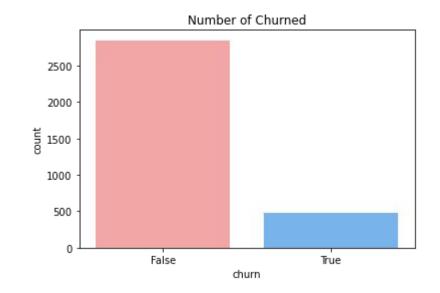
Data



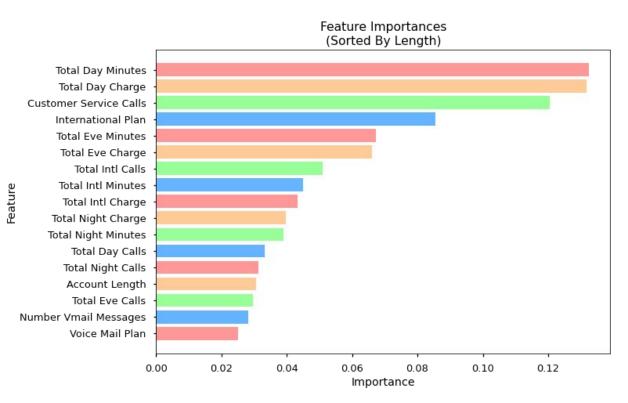
- Available from Kaggle:https://www.kaggle.com/datasets/becksd
 df/churn-in-telecoms-dataset
- About 3,000 records
 - including descriptive aspects of their telephone interactions with SyriaTel

15% 'churn' from SyriaTel

- 14.49% churn
- 85.5% do not churn



Most Important Features



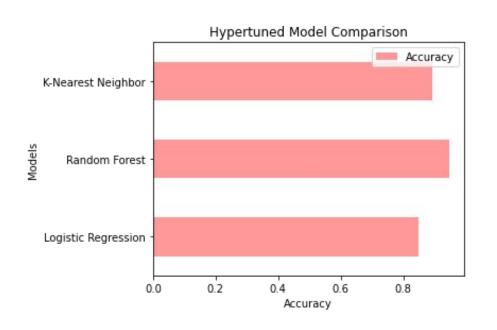
- Total Day minutes
- Total Day Charge
- Customer Service Calls





 The highest accuracy among the models was 95%





	Accuracy
Logistic Regression	0.850120
Random Forest	0.946043
K-Nearest Neighbor	0.894484

Construing to New Data

 When applying the model outward it was discovered that lessening total day minutes on the phone and total day charged per customer will lessen the churn of people from SyriaTel.

Recommendations

Shorter phone calls may lead to higher retention rates.
More training to staff on how to lead succinct phone calls.

 Whether daily or hourly, how payment is collected will effect churn as well. Changing the method from daily to hourly could discourage churn.

Thank you for your time

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