

# SyriaTel Churn By Jared Lilly

### Objective

## Tasked with predicting churn of customers for our telecom company

#### WHY?

- Saves the company money
- Potentially develop strategies to retain at risk customers

#### About the Data:

Kaggle dataset containing **3333** rows of SyriaTel customer information and **21** columns

Includes information such as:

- Total day minutes
- Voicemail/international plans
- Total evening minutes etc
- State their from etc.

#### Models Used/ Data Limitations

Models ran:

Logistic Regression

**Decision Tree Classification** 

Random Tree Classification

Pruned Decision
Tree Classification

Limitations:

Sample Size and Class imbalance:

Did not churn: 2831

Churned: 483

**CHURN HURTS** 

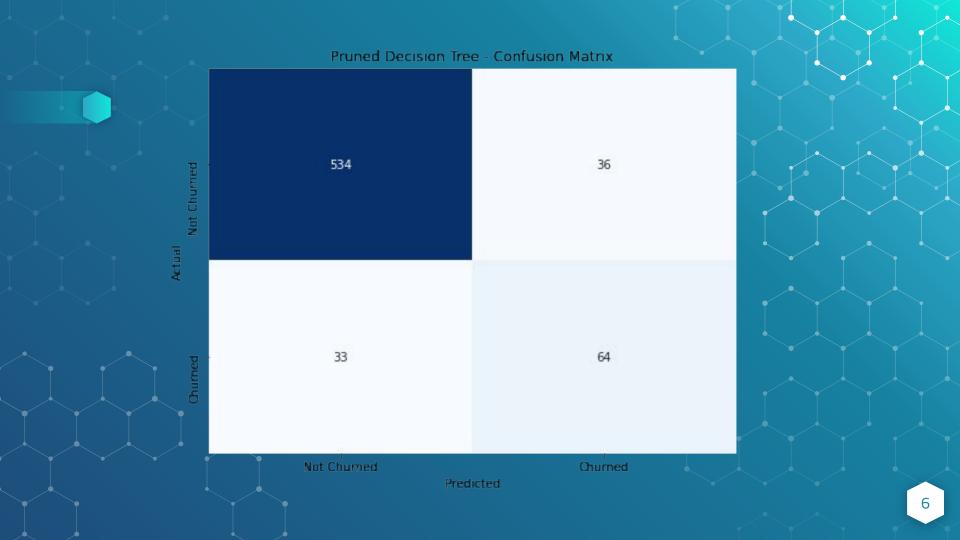
#### **Model Evaluation:**

Pruned Decision Tree:

Recall was overall best at 76%

Why Recall?

Focuses on correctly identifying customers who might churn



Recommendations/Next steps:

Use this model to Save company money

Focus retention efforts on features:

total day minutes

customer service calls

international plan

### THANKS!

#### **ANY QUESTIONS?**

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