

Telephone Customer Churn

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Agenda

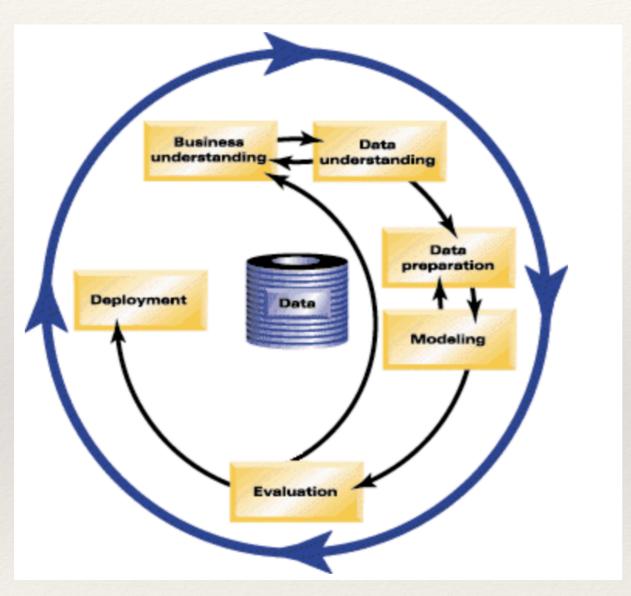
- * Introduction
- * Methodology
- * Findings
- * Recommendations
- * Future Work

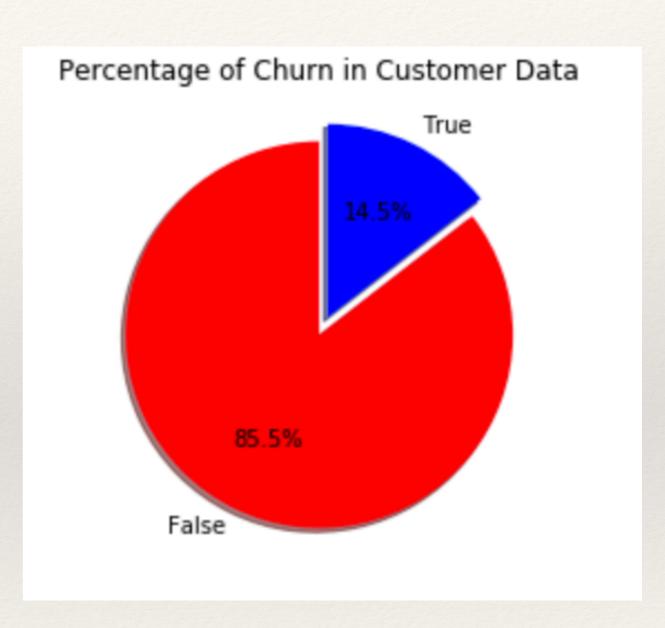


Introduction

- * Syriatel is the leading mobile telecommunications company based in Damascus, Syria.
- * Their vision is that, by focusing solely on customer satisfaction and social responsibility they are able to present products and services of a high standard.
- * Our target is to identify whether a customer will churn and to provide actionable solutions to that problem

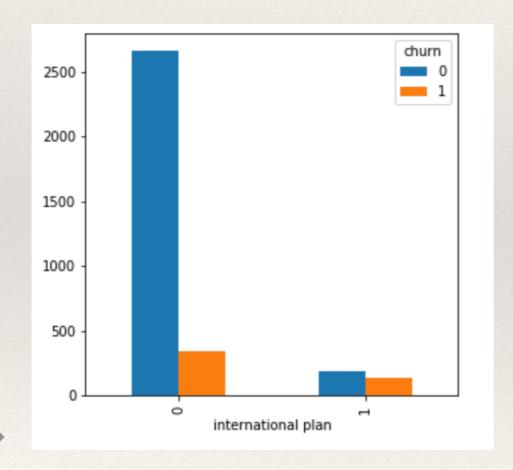
CRISP-DM





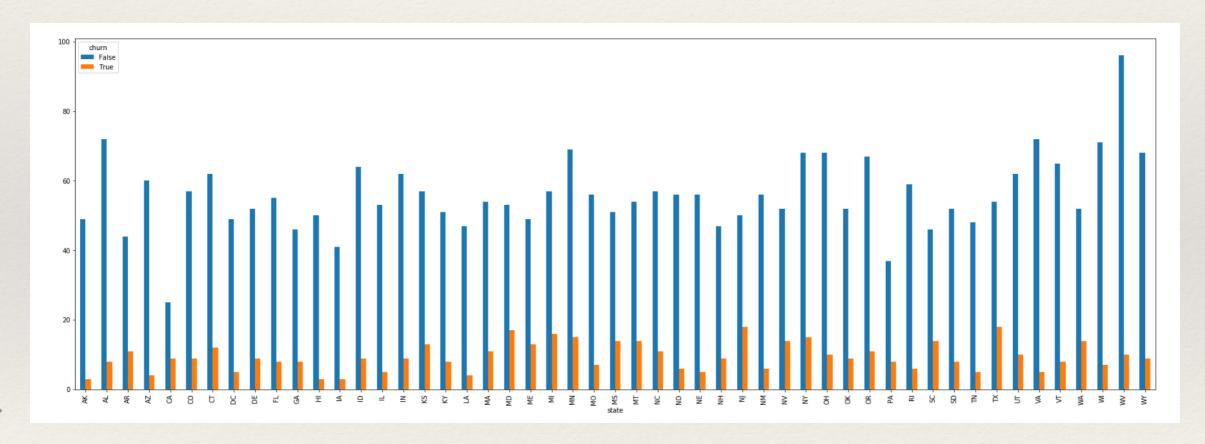
Business Questions

* Is non-provision of an international plan likely to influence a customer to churn?



Business Questions

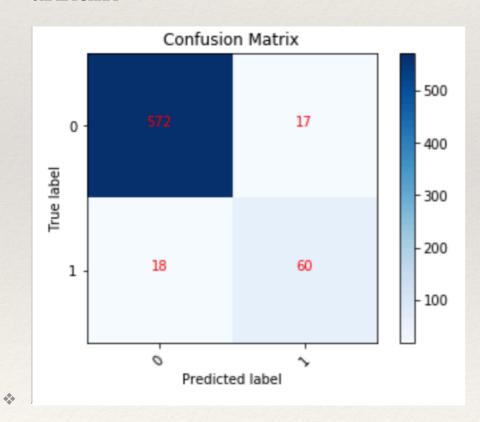
* How influential is the state on churn data?





Business Questions

- * How much is the customer churn likely to cost SyriaTel based on the final model selected?
- * SyriaTel must consider the 3 factors when considering the next action Lose Recurring Revenue (ARR), Lose Expansion Opportunity Revenue (LEOR), Cost to Acquire New Customer (CAC).
- * Pre model loss \$42.03m/annum v Post model loss \$50.274m. Net additional loss = \$8.244m/annum



Recommendation

- * Approach the customers likely to churn with better deals such as more minutes on their data at more competitive rates because day/eve/night/& intl minutes were identified to have been variables of critical importance.
- * Use analytics to a greater extent and more frequently to identify churning customers.
- * Digital services Spotify, Netflix, Amazon Prime.
- * Improved customer service chatbots or online interactive services.

Future Work

- * Better use of hyper parameters and fine tuning more.
- * Producing more models.
- * Identify important features early to avoid overfitting of data.

Thank You

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