

MORINGA SCHOOL
DSF-FT13

Syriatel Customer Churn Analysis.

BY GROUP 6.

Syriatel Telecommunication

From Churn to Retention

Introduction & Data Understanding

Approach

Visualizations

Key Findings

Recommendations & Next Steps



Introduction

- Syriatel is a leading telecom provider of voice and data services.
- Like its competitors, the company's goal is profit maximization.
- A key challenge is customer churn , when subscribers cancel and move to competitors.
- This project uses data-driven methods to understand churn and propose solutions.



Data Understanding.

- We used the Syriatel customer Churn dataset available on Kaggle.
- The dataset covers information of customer's location, usage, charges and whether they left or stayed.
- It is important because it helps us identify patterns in customer behaviour.

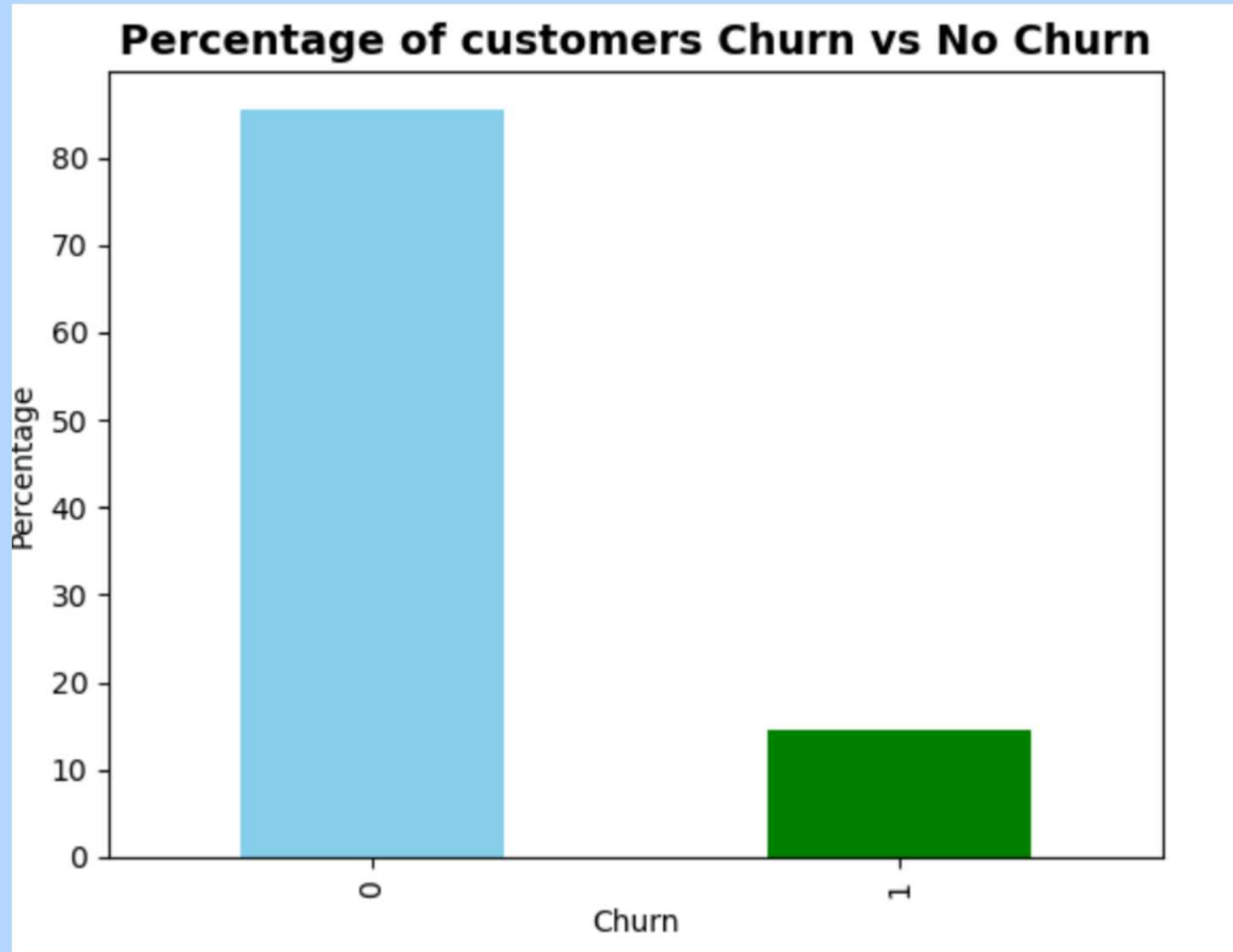


Approach

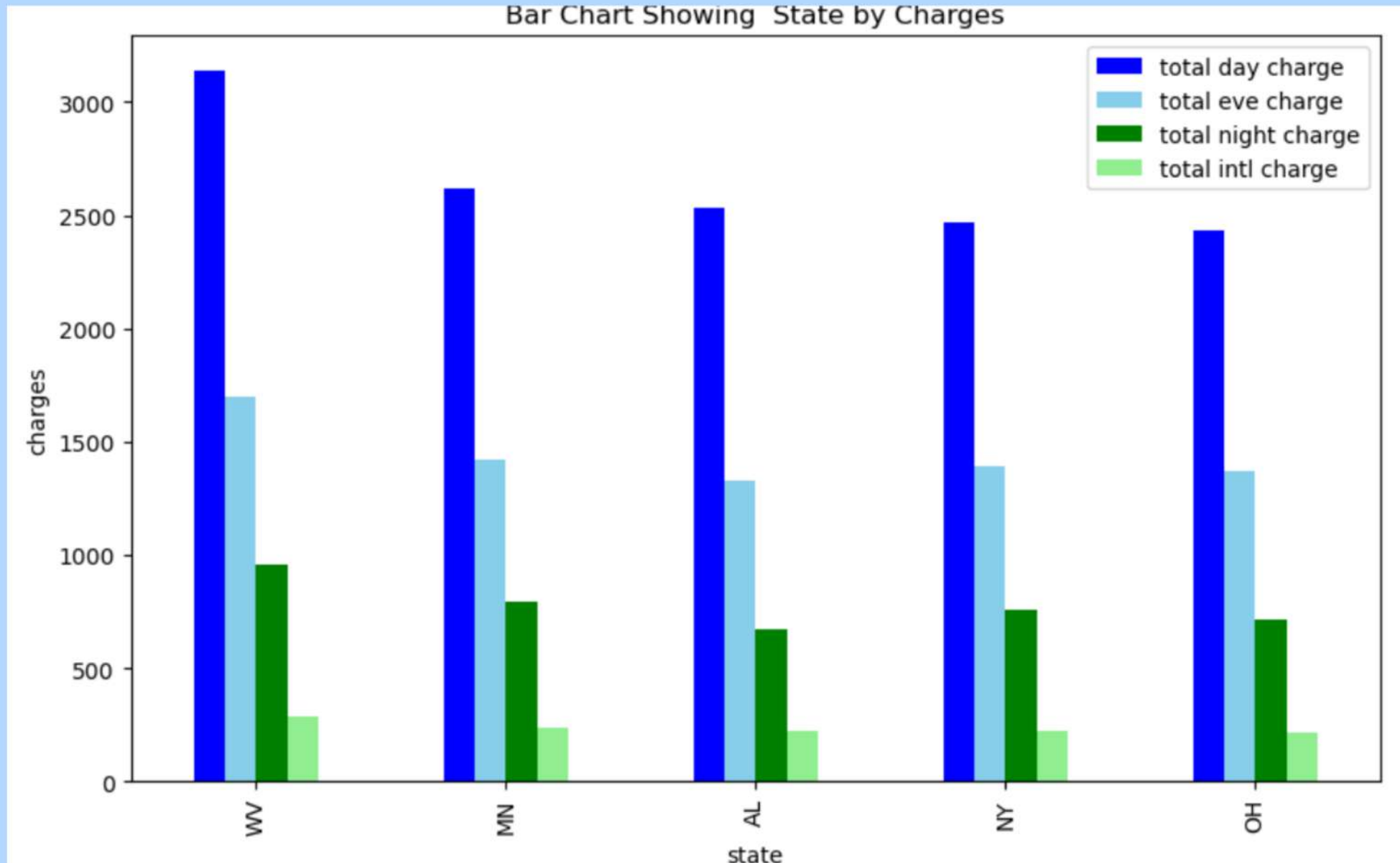
1. Extract the zipped csv files
2. importing relevant libraries and loading the dataset.
3. Preparing the data: checking for missing values, checking for duplicates, outliers
4. EDA: Analysis and Visualizations.
5. Modeling: Logistic regression and the Decision Tree Classifier
6. Evaluation

Churn at a Glance

- Percentage of customers who churn are 14%

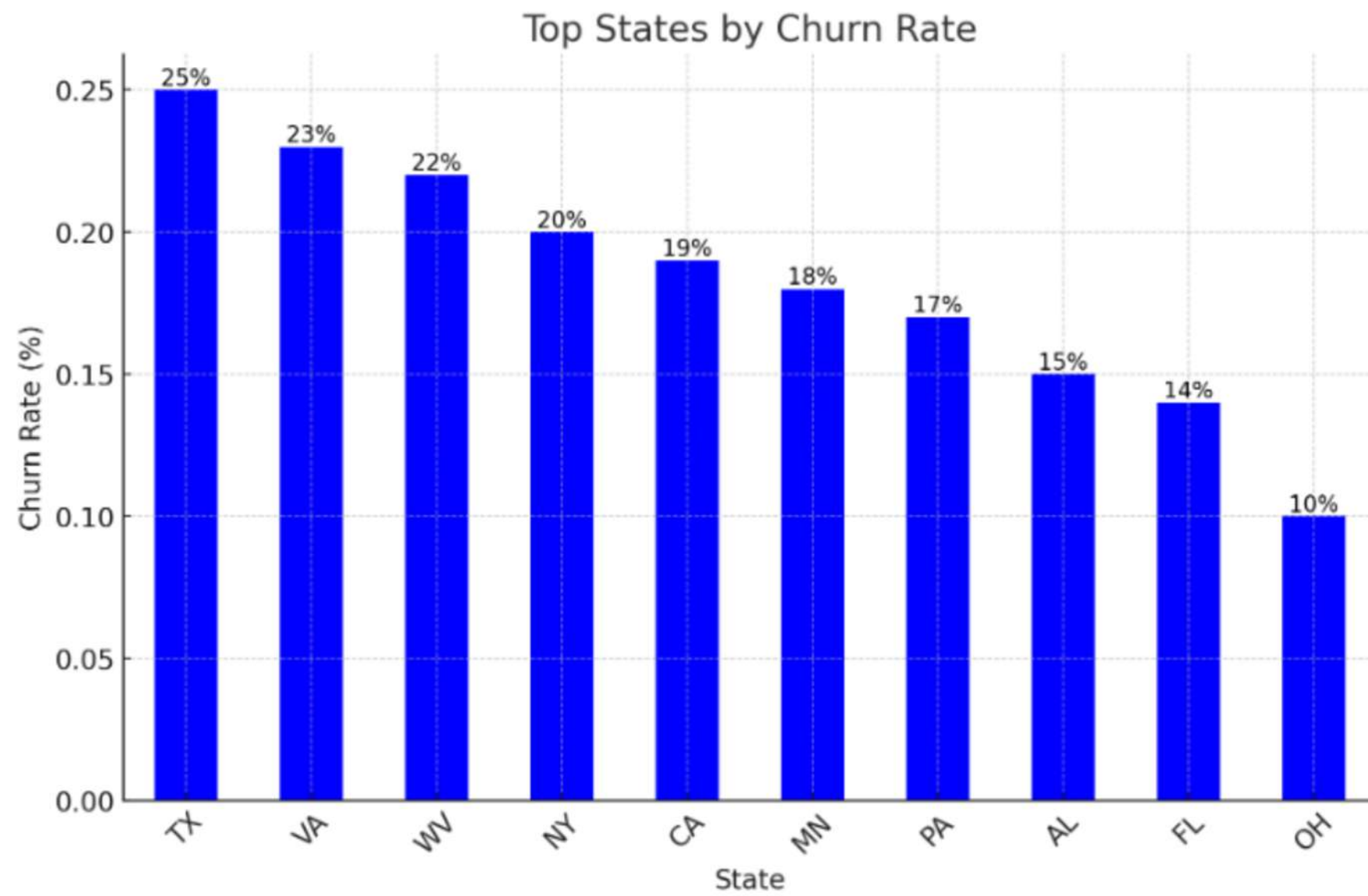


States with the highest charges



- West Virginia has the highest overall charges
- Minnesota has the second highest overall charges.

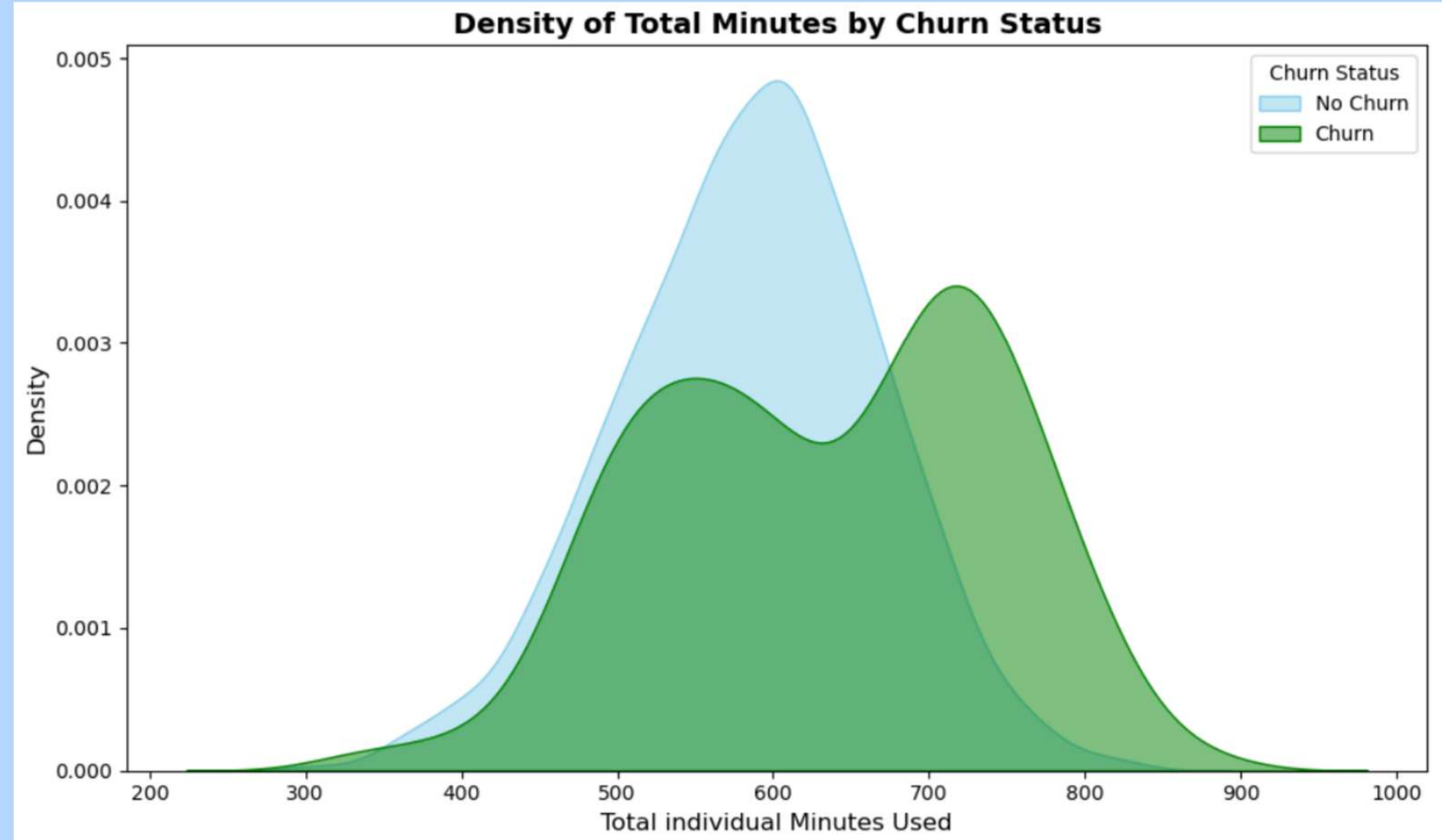
Which State has the highest Churn Rate



- The States with the highest churn are Texas, Virginia and West Virginia

Usage distribution of total minutes.

- The green curve is wider and lower, while the blue curve is taller and more concentrated indicating higher usage among customers who stayed.



Key Findings:

- High Charges Drive Churn: States with higher day and evening call charges (like West Virginia) tend to experience more customer churn.
- Customer engagement reduces churn: highly active users are more loyal, while low-usage customers are more likely to leave.
- About 14% of SyriaTel's customers have churned, a sizeable share that poses a serious risk to revenue if left unaddressed.

Recommendations:


RETAIN HIGH USAGE CUSTOMERS

- Create targeted retention programs (loyalty points, discounted packages, or “VIP customer” care) to reduce churn.
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ADDRESS HIGH CHURN STATES

- Focus retention campaigns in states with the highest churn (e.g., Texas, West Virginia).
 - Provide localized offers or customer support initiatives.
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REVIEW PRICING STRATEGY

- Reassess day and evening call charges in high-cost states.
 - Introduce loyalty discounts or bundled packages to reduce cost-driven churn.
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Next Steps

- **Deploy the churn prediction model → integrate it into SyriaTel's customer system.**
- **Act on predictions → target at-risk customers with loyalty offers and discounts.**
- **Monitor performance → track churn monthly to see if interventions work.**



The background of the slide is a deep blue gradient. On the left and right sides, there are vertical panels featuring a complex, glowing blue network of interconnected nodes and lines, resembling a molecular structure or a data network. The central area is a solid dark blue.

THANK YOU!