



TOOMAN

BANDING



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Spenderlytics Overview

- Our software company specializes in analyzing credit card transaction data to provide actionable insights, accurate forecasting, and intelligent dashboards that help companies make datadriven decisions.
- Today, we will present how we can use your credit card transaction data to uncover trends, improve customer targeting, and forecast spending behavior.



Founding Team

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Data Collection 2.3 credit card. 2.7/10 credit cards 1.300 1.8 Treamaly5 93 1.5 years 93 1 50 SD 980 900 1.270 1.34 1913 E38 0 5438 orie 1.831 UNIQUE CREDIT CARDS 1.5 years 1.29m records Transctions Credit Cards

Data Source:

Kaggle (Credit Card Transactions Dataset)

Data Columns:

- Date: Transaction date & Time
- Credit Card Number
- Amount: Transaction amount.
- Merchant
- Category: Spending category (e.g., Groceries, Dining, Travel, etc.)
- Geo Information: State/City/Population
- User Info: Gender/Job/Age

Data Size:

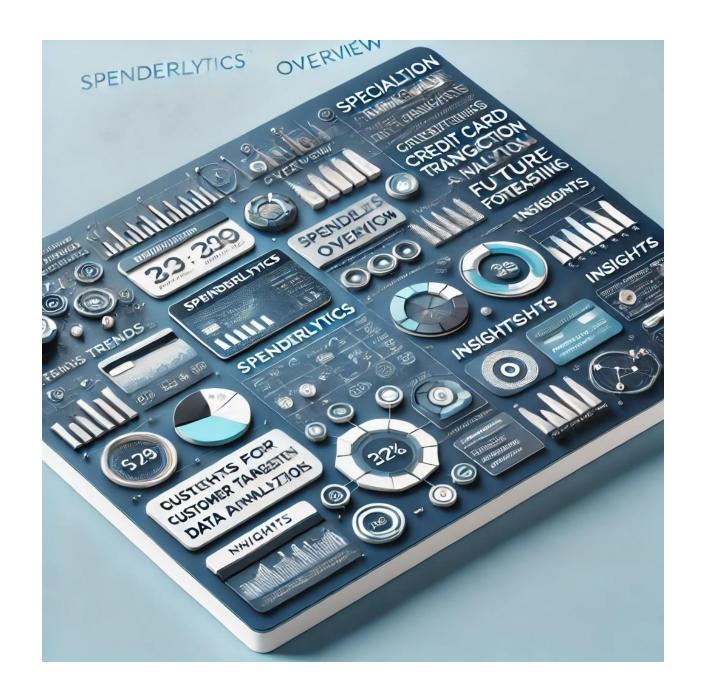
- o 1.5 years
- o 983 Unique Credit Cards
- 1.29M records

Key Analysis Areas

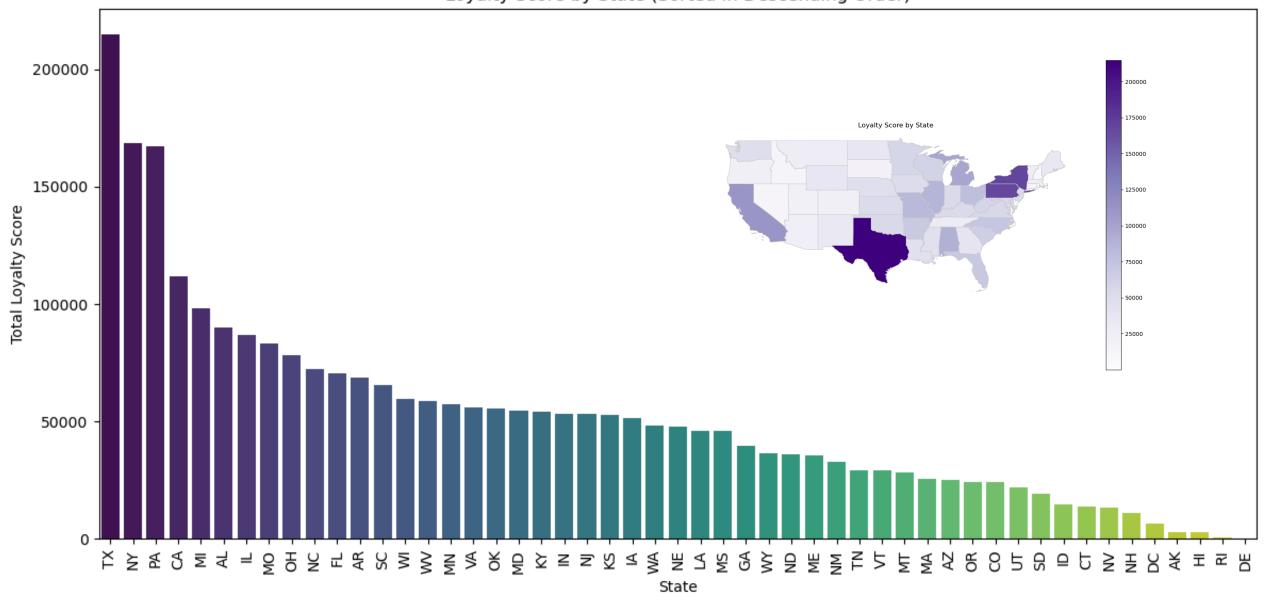


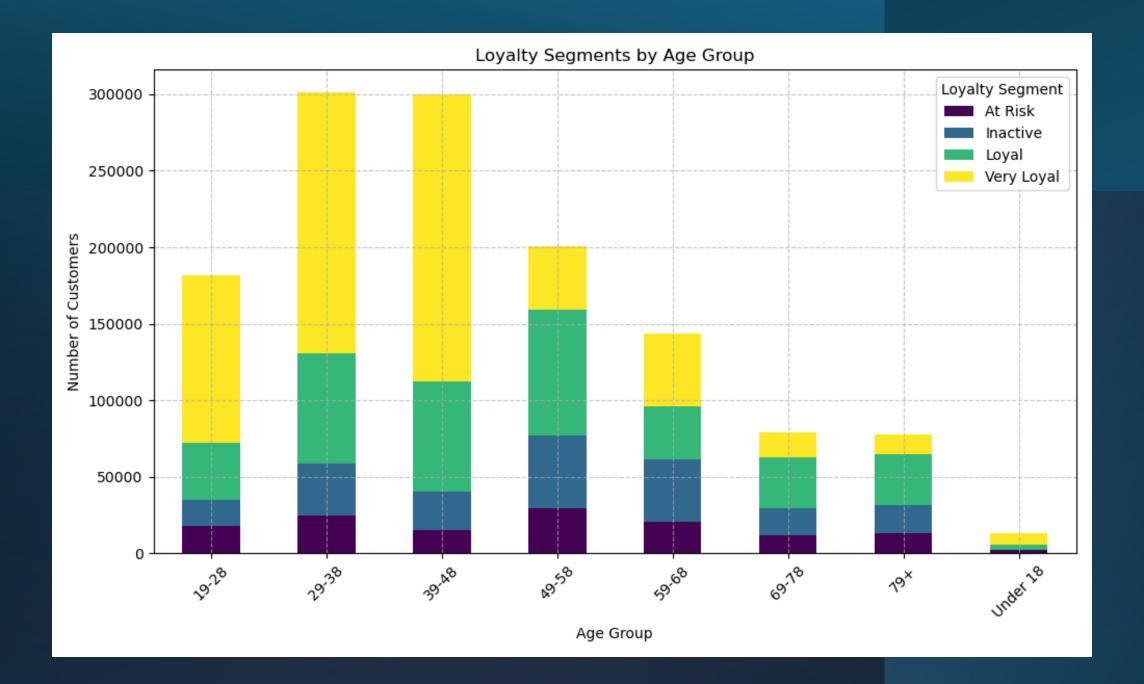


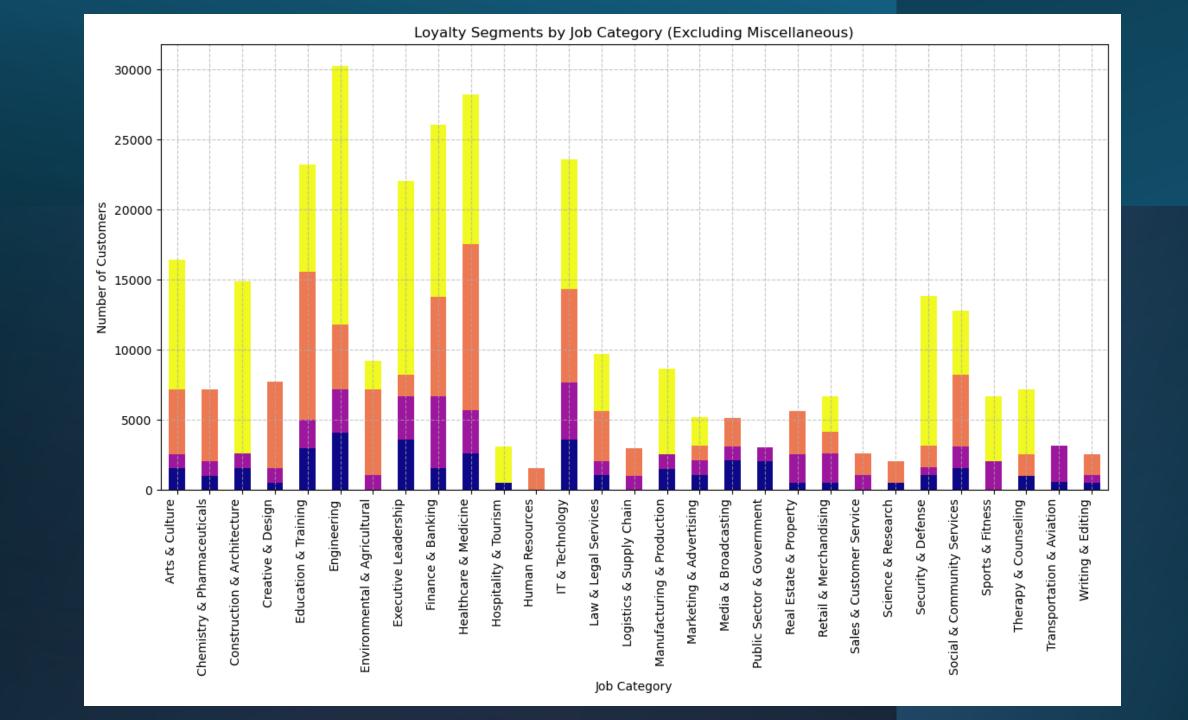
Customer Loyalty Analysis



Loyalty Score by State (Sorted in Descending Order)



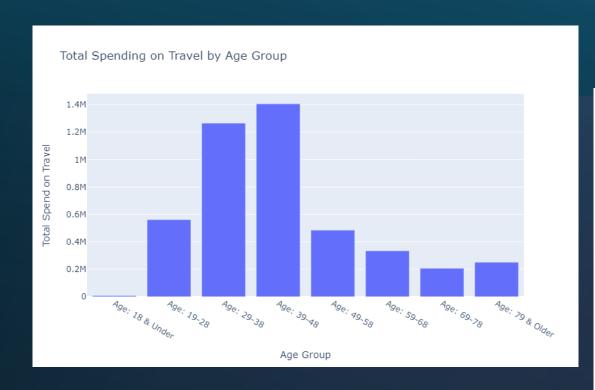


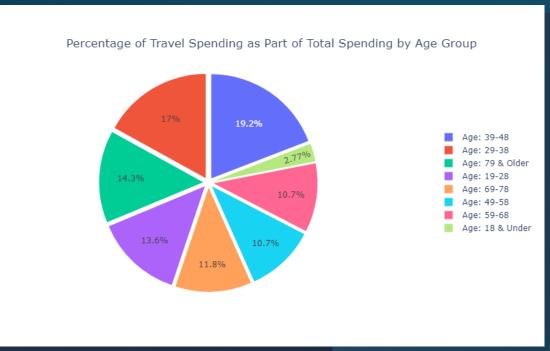


Age Segmentation Analysis



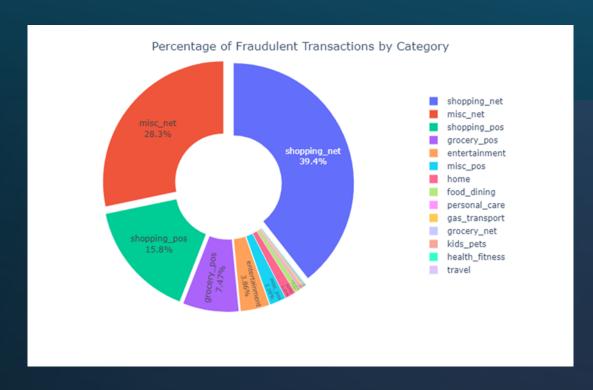
Travel Spend Opportunities

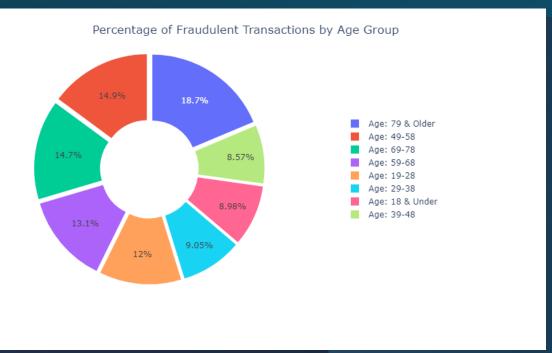




- Target Ages: 49-58, 58-68, 69-78
- Tailored Reward Points Incentives: 3X points on travel spend
- Complimentary Travel Insurance
- Family Bonus: 3+ more airline ticket purchases 5000 points
- Health and Wellness Travel Perks : Partner with Spa Resorts, Health Retreats, Medical Travel

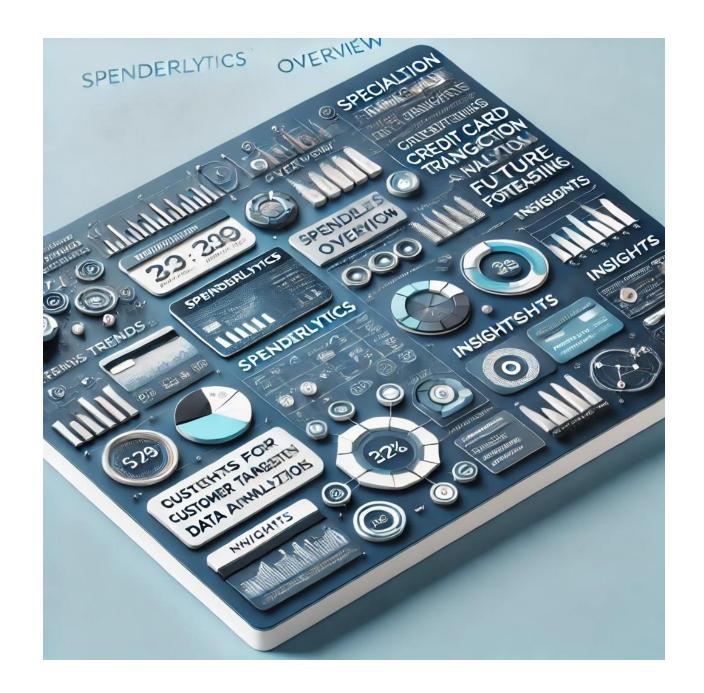
Fraud Among the Ages





- Target Ages and Categories: 79 & Older 67.7% Fraud transactions online shopping (misc_net, shopping_net
- Increase security of online shopping
 - Dynamic MFA
 - Biometrics
 - Make OTP mandatory
 - Tokenization
 - Al "Smart Guard" analyzing spending patterns in real time

Marketing
Opportunities&
Fraud
Forecasting

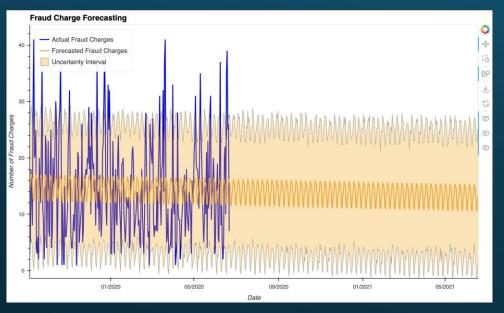


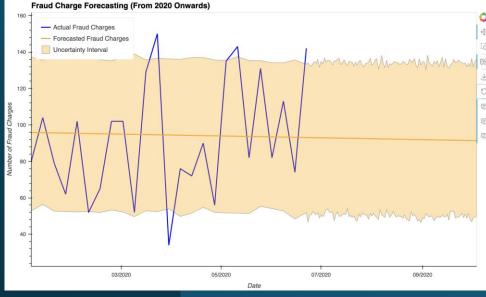
Marketing Opportunities



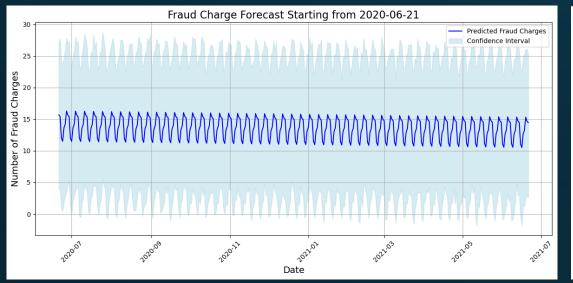
Fraud Forcast

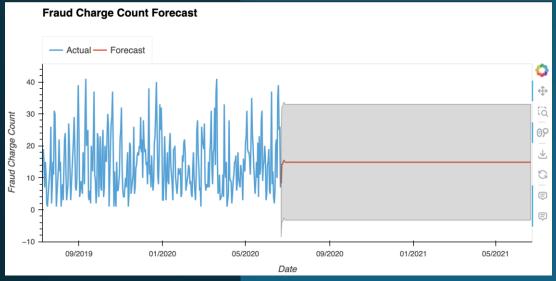
- Neural Prophet, Prophet, and ARIMA models
- Excessive outliers





Daily fraud range:



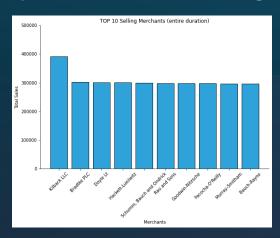


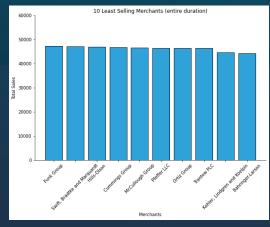
Spending Behavior by Merchants



Merchant Sales Performance Overview

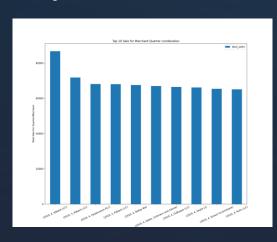
Top and Least Ten Selling Merchants for entire duration.

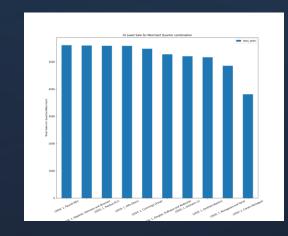




- Market Trends and Insights
 - Potential Market Trends: Identify emerging trends based on sales data.

Top and Least Ten Selling Merchants for quarter.

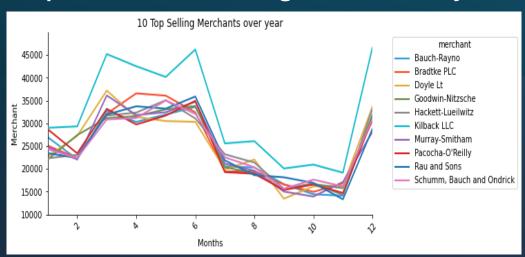




- Areas of Improvement: Strategies for lower-performing merchants.
- Strategic Partnerships: Form partnerships with top-performing merchants and provide support to lower-performing ones

Merchant Sales Performance Overview (contd.)

Top and Least Ten Selling Merchants for year





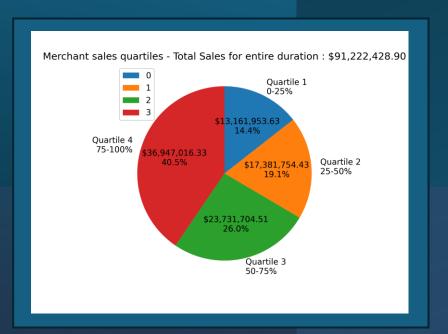
Top and Least Ten Transactions for Merchants for year.

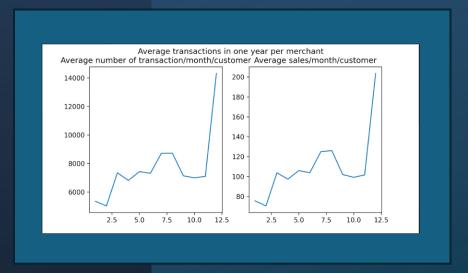




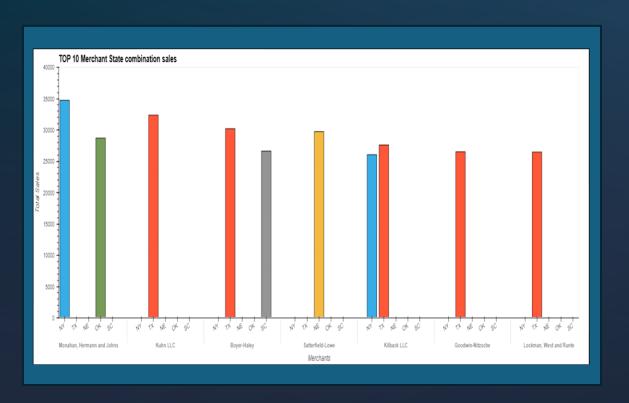
Total sales for all merchants in a year

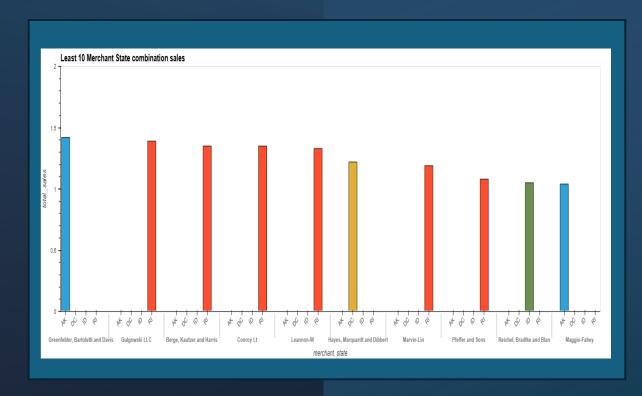
- Average number of transactions per month for merchant
- Average sales per month for merchant
- 4 Quartiles distribution of merchant sales





Top & Bottom Ten sales for merchant state wise





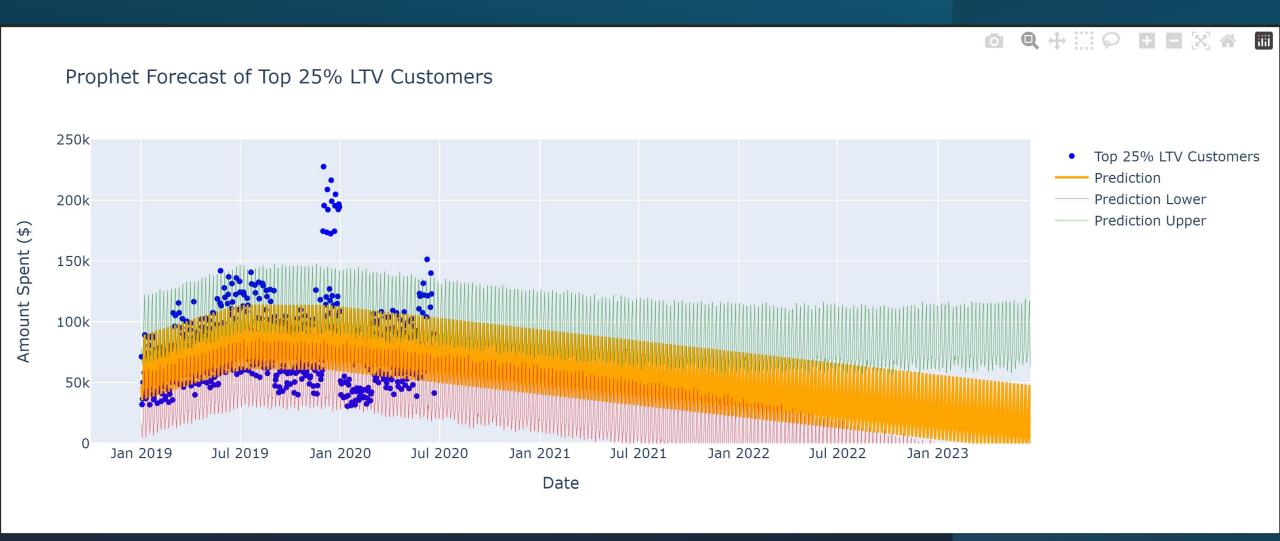
Lifetime Value (LTV) Forecasting



Top 25% LTV vs All Customers

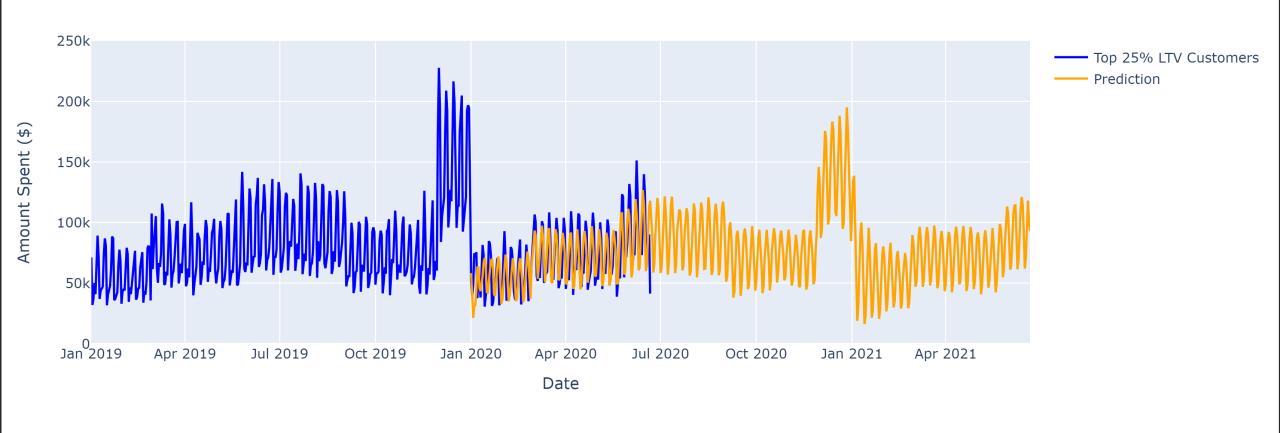


Prophet Forecast



ARIMA Forecast

ARIMA Forecast of Top 25% LTV Customers



Future Improvements





Advanced Segmentation using ML & Al



Real-Time Data Integration



Customer Dashboards



Generalized App

