TheAnalyticsTeam

# Sprocket Central Pty Ltd

Data analytics approach

Sunny Patel
Data Analytics Consulting Virtual Intern

#### Agenda

- 1. Introduction
- 2. Data Exploration
- 3. Model Development
- 4. Interpretation

#### Introduction

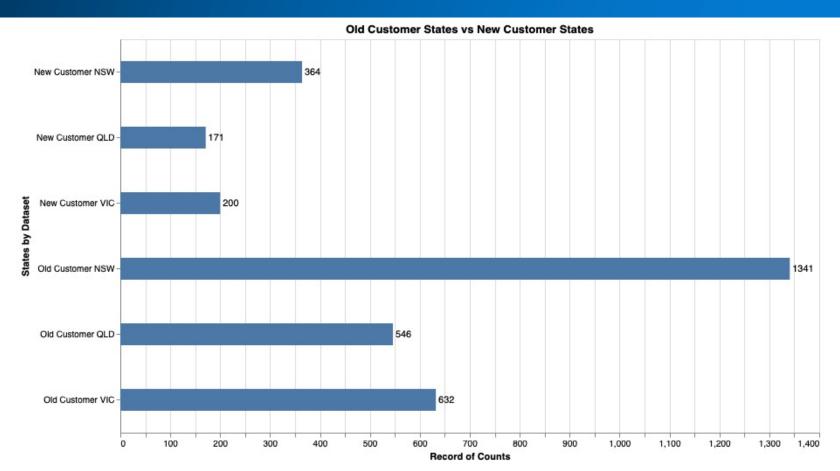
#### **New Customers Dataset**

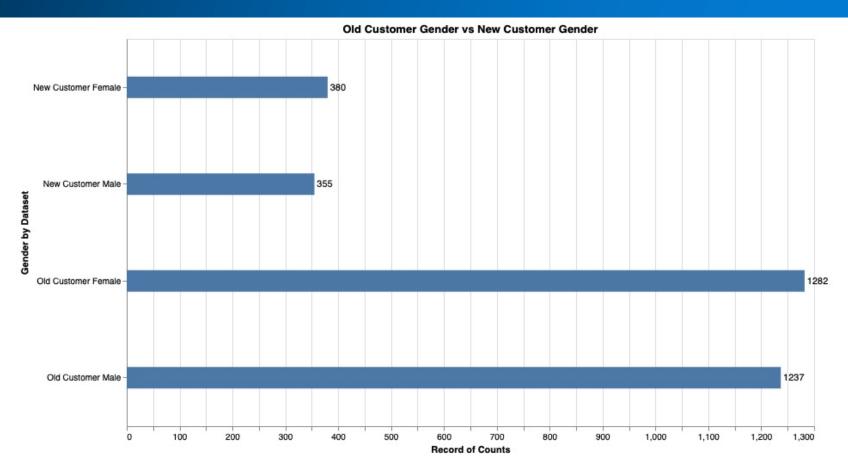
- Records with Missing Fields were Dropped except for the last name column
- Age column was created

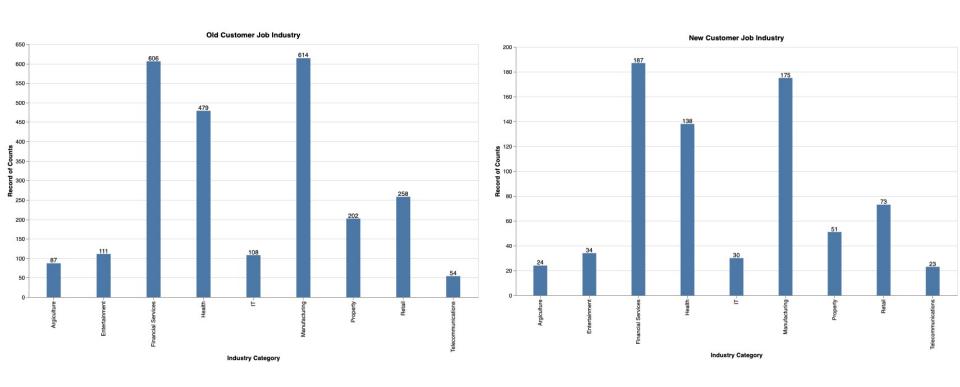
#### **Overall**

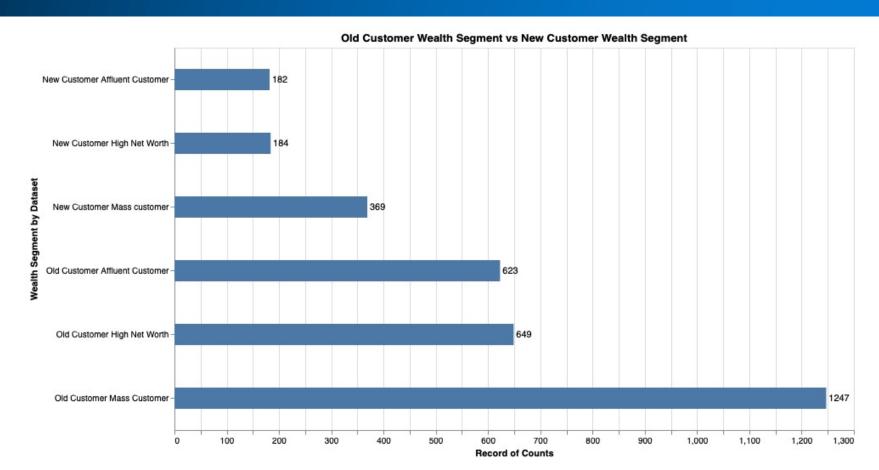
- Records for customers were dropped if it was not in all three datasets
- Customer Demographic and Customer Address datasets were joined together
- Customer Demographic, Customer Address, and Transaction datasets were joined together

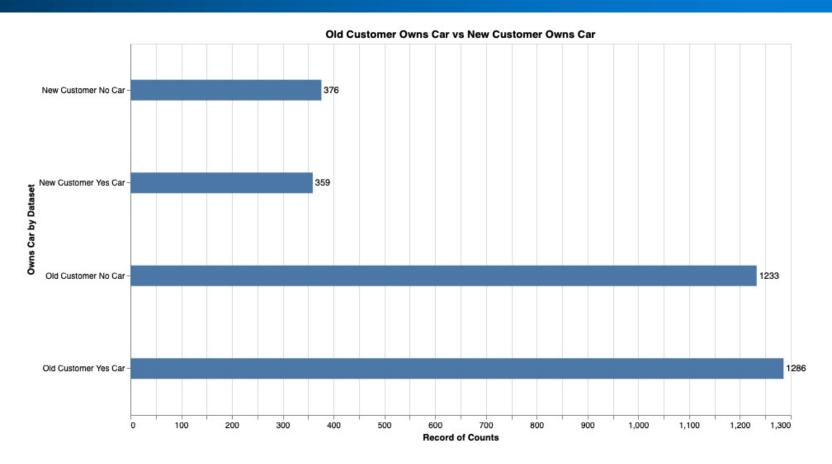
2519 Distinct Old Customers were Analyzed

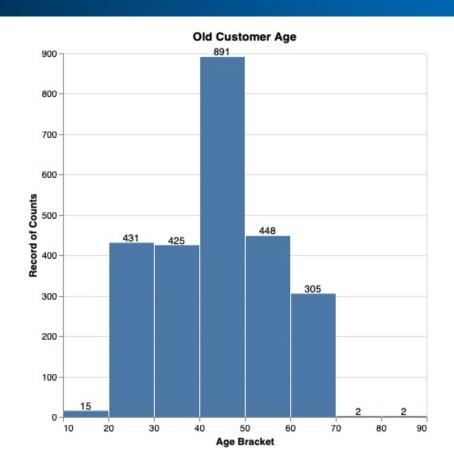


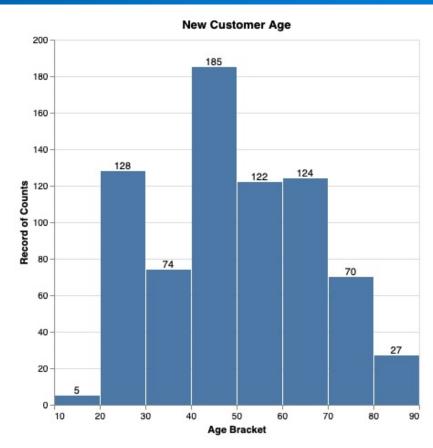


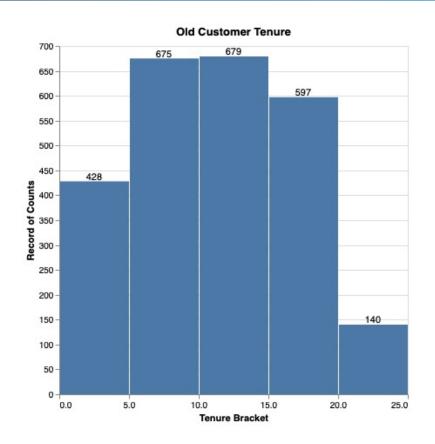


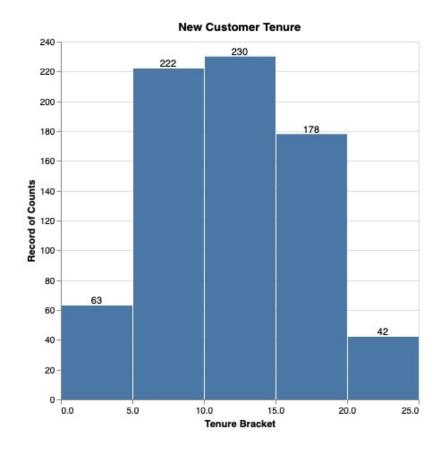


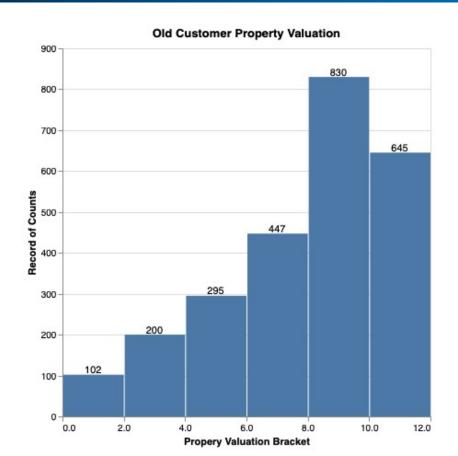














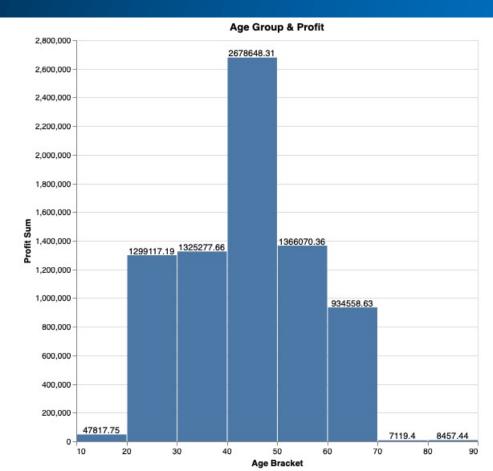
#### **Differences between Old and New Customers**

- New Customers are older
- Slight increase in ownership of cars for New Customers

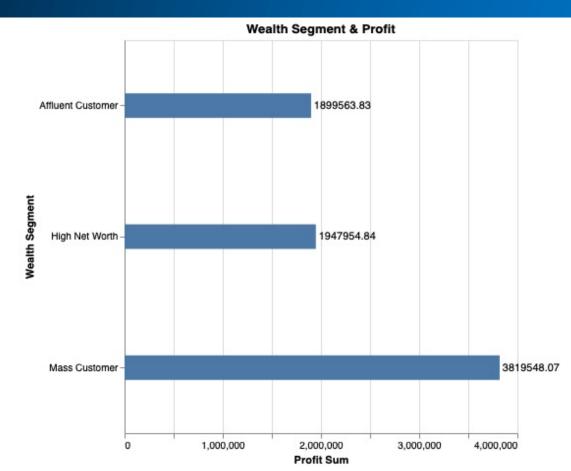
- By studying the relationship between transactions and different characteristics of the old customers, we can properly determine marketing strategies for the potential new customers



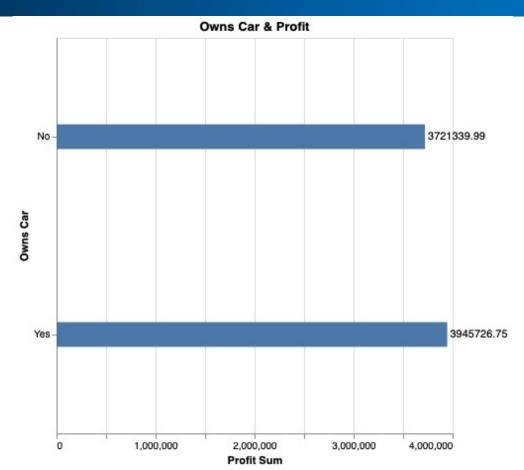
Profit is slightly higher among Females



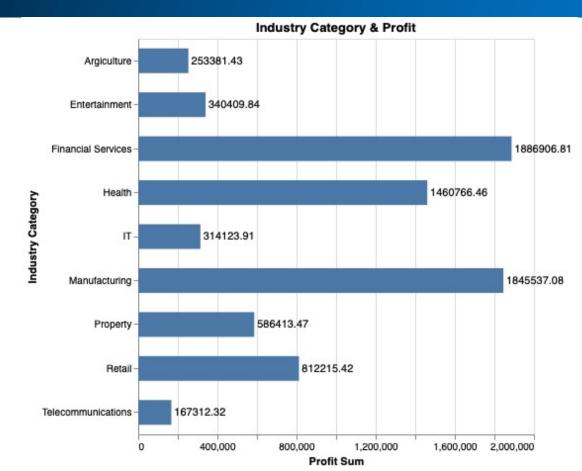
Profit is greatest in the 40-50 age bracket



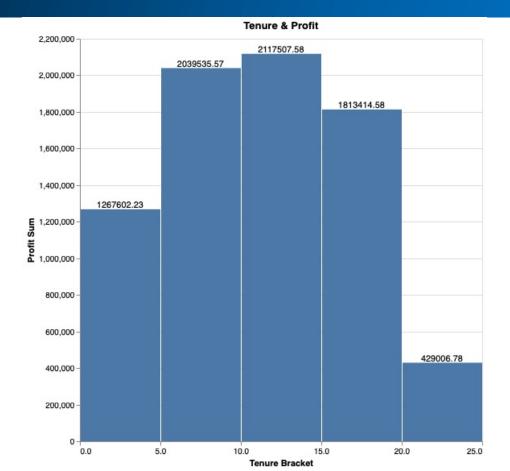
Profit is greatest among Mass Customers



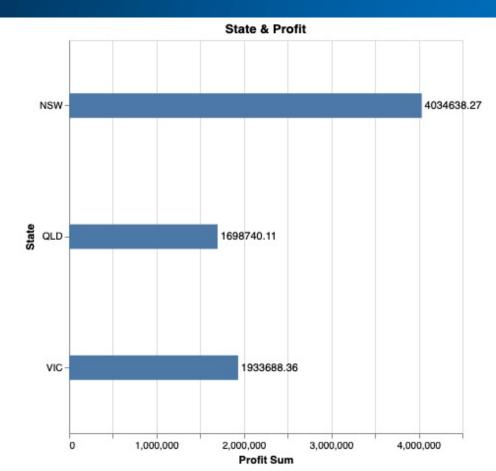
Profit is slightly higher among those that own a car



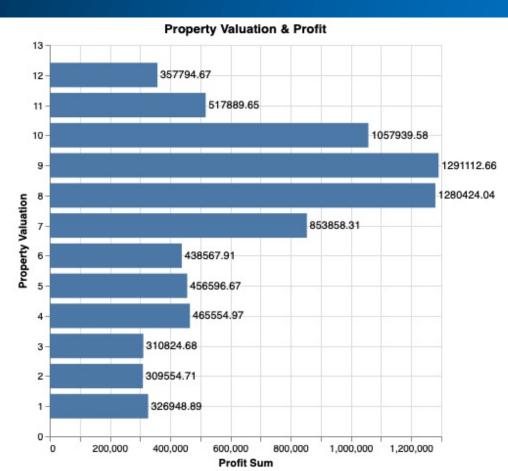
Profit is highest among customers working in Financial Services and Manufacturing



Profit is greatest among those in their jobs for between 5-20 years



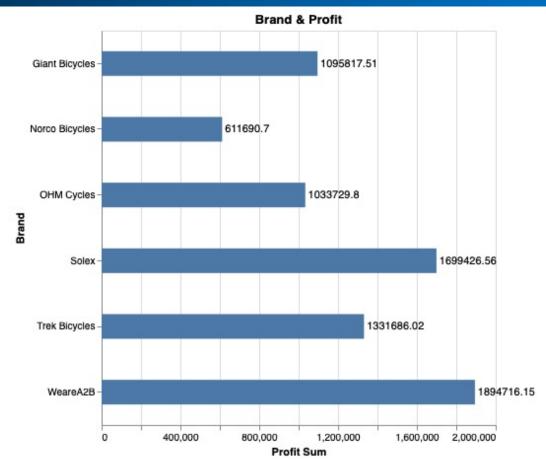
Profit is greatest from customers living in NSW



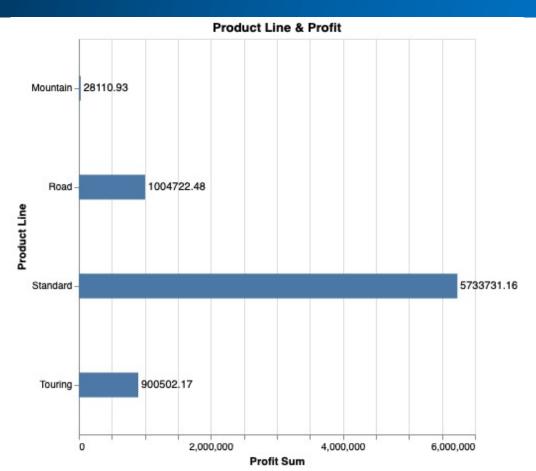
Profit is greatest among those that have a Property Valuation of 8 or 9



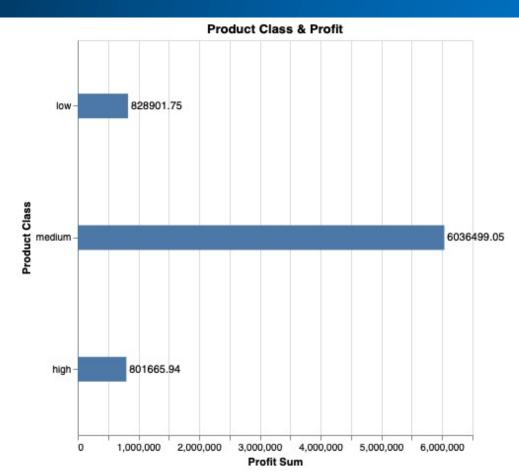
Profit is slightly greater among in store purchases



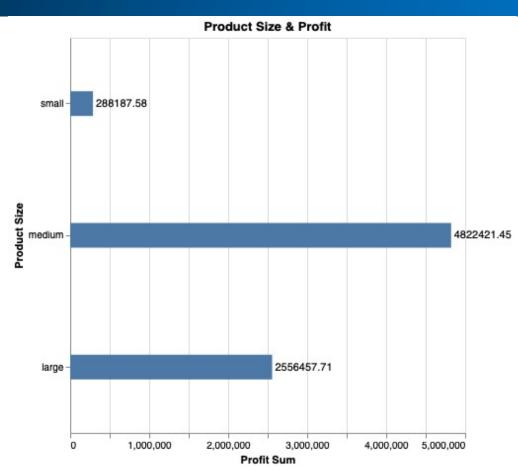
Profit is greatest among WeareA2B and Solex brands



Profit is greatest among Standard bikes



Profit is greatest among Medium Class bikes



Profit is greatest among Medium bikes

#### Interpretation

- Since the Old Customer Demographic and the New Customer Demographic is roughly the same, focusing marketing strategies on characteristics that make the most profit will result in the most value for the organization

#### Characteristics of Customers that were Most Profitable

- Female
- 40 50 age bracket
- Mass Customer
- Owns a Car
- Financial Services
- 10 15 Tenure
- NSW
- Property Valuation 9
- In Store Purchases