

TheAnalyticsTeam



RFM Analysis

Sujata Borkar – Data Analyst

Agenda

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

Introduction

Identifying High value Customers through RFM Analysis

Problem Statement

- Sprocket Central Pty Ltd, a valued client, specializes in high-quality bikes and cycling accessories.
- The objective is to boost business through a data-driven customer targeting strategy.
- We will approach it by leveraging insights from the existing customer dataset.
- To find the 1000 valuable customers for company.

Approach

- Bike related purchase for last 3 years
- Top industries contributing to the highest number of sales for company.
- Age group contributing most in sale of bikes.
- Number of car owners with respect to state
- Classification of customers base on their purchasing power.

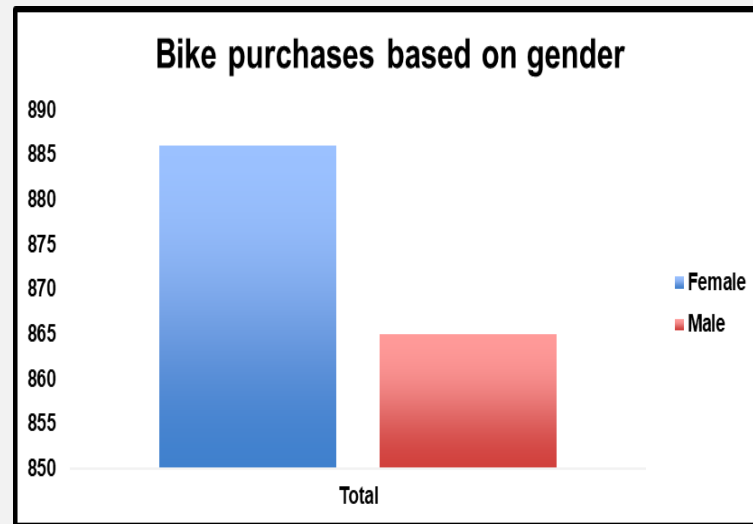
Data Quality Assessment

COLUMN	ACCURACY	COMPLETENESS	CONSISTENCY	CURRENCY	RELEVANCY	VALIDITY
CUSTOMER DEMOGRAPHIC	1045 cells missing data Inaccurate Data: DOB	Blanks: job title Incomplete: Customer id	Inconsistency: Gender	Deleted: Deceased customer	Deleted : Default column	
CUSTOMER ADDRSS	203 cells data missing		Inconsistency: State			
TRANSACTIONS	1554 cells missing				Ambiguous : Last column	Format Issue: List price Product sold date

Data Exploration

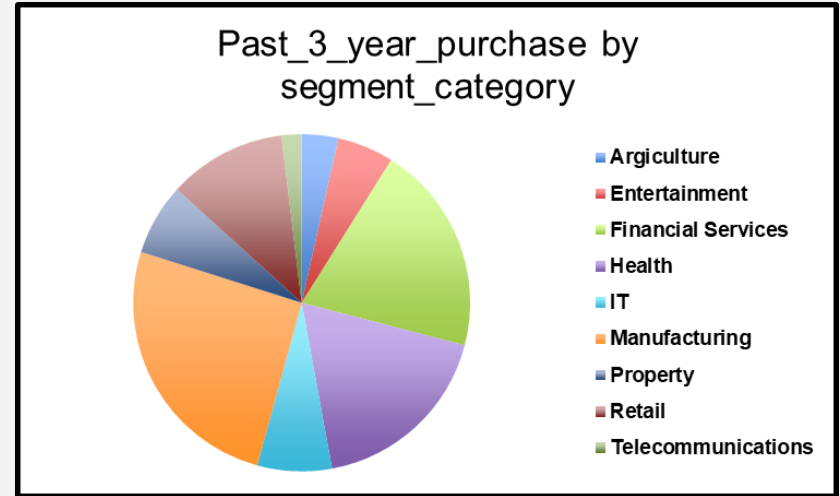
Profit based on Gender

- Males are more into buying bikes than women in last three years.
- This shows that our target audience are more in male category than in female category.



Purchase based on segment category/industry

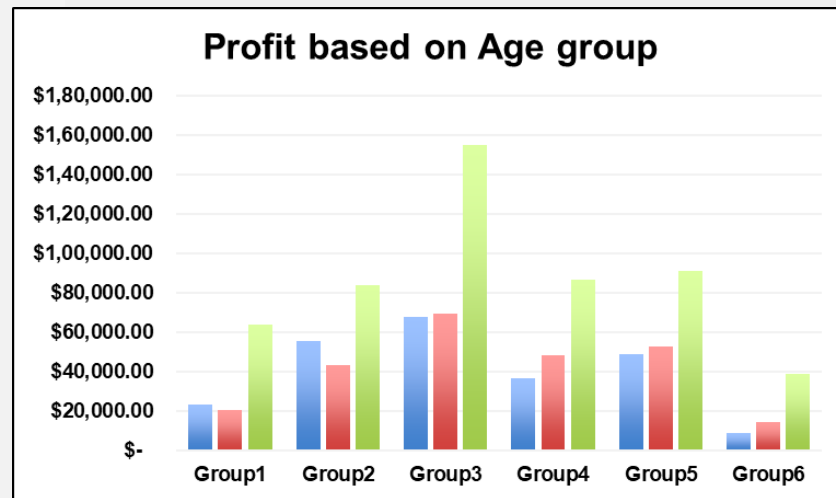
- We can see that Financial services along with manufacturing services have the most contribution in terms of bike purchases in past three years
- Health sector is also one of the highest contributor of bike sales.
- Other relevant segments are retail, IT, Entertainment and property as well.



Data Exploration

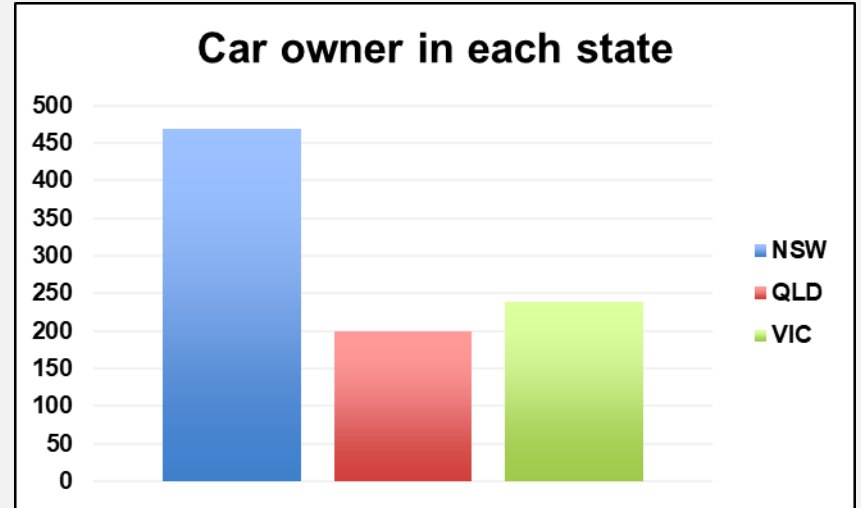
Profit based on Age group

- Age group 3,i.e people of ages between 38-47 are the highest purchasers of bikes in Australia.
- This shows that this age group has higher buying power than rest of the age groups.



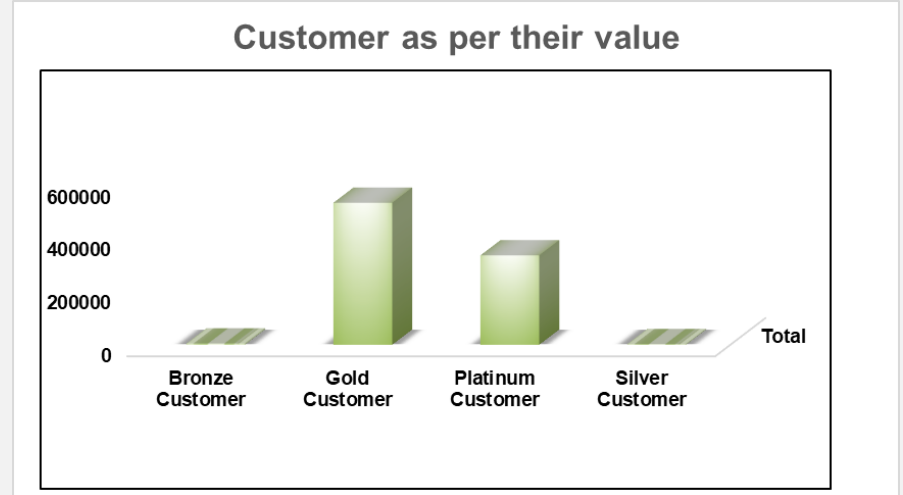
Car owners in each state

- NSW has the highest amount of car owners.
- So, we can focus more on VIC and QLD in terms of marketing, advertising and targeting for the potential buyers for the bikes



Customer based on their value

- The count of platinum customers is more than 30 lakhs and that of gold customers is more than 50 lakhs in terms calculated RFM values.
- Also age group of 38-47 are our valuable and potential customers.
- Male population is to be targeted more than female population.
- The states VIC and QLD has good potential buyers as few people own cars in those states.



INTERPRETATION

- Based on the Data Exploration and Model Development I would like to attach a Power BI Interactive Dashboard to interpret some insights on the given data as well as draw logical actions and suggestion on the sales of Sprocket Central.
- Also based on Australian Bureau of Statistics manufacturing industry grew by \$7.6b in revenue!(17.8%) which means we still have larger market to cover and prosper.

Appendix