The analytics team

Sprocket Central Pty Ltd

Data analytics approach

Agenda

The approach will be implemented in three stages:

- □ Data Exploration
- ☐ Model Development
- Interpretation

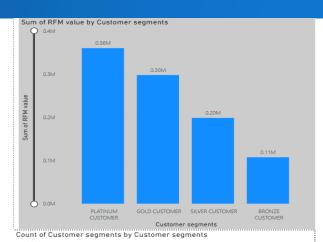
Agenda

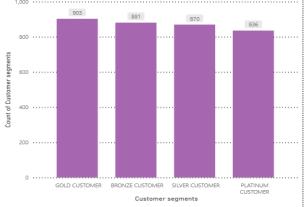
Approach for New Customer Data analysis:

- ☐ Recency, Frequency and Monetary
- Age distribution
- Job industry and Gender
- Number of cars owned
- States and wealth segment
- ☐ Past 3 years bike related purchase by state and brand

Data Exploration : RFM analysis

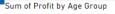
- On performing the RFM- Recency, Frequency and monetary analysis for the customer segmentation, it is seen that platinum customers contribute to the most of the profit for the organization.
- □ Also, they are present in lesser amount than gold and silver customers. Hence the target is to retain as many platinum customers and also the company should try measures in converting the other categories of customers to platinum customers.

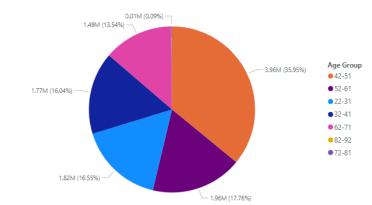




Data Exploration: Age Distribution

- □ There are more number of customes anf the major contribution of profit is provided by the age group between 42-51 followed by 52-61& 22-31.
- ☐ Fewer customer are from 82-92 and 72-81.
- □ Data shows age group **42-51** has high count in terms of purchase made in last 3 years.
- ☐ Since they depict a higher level of purchse rate, the target has to be made to retain them and also improve the purchase rate for other cathegories.



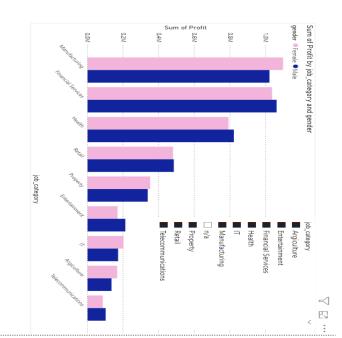




Data Exploration : Job Industry and gender

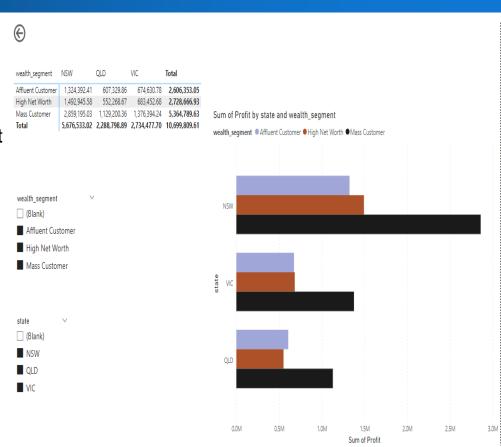
- Manufacturing, financial services and Health are the three sectors that play a huge role in profit generation.
- ☐ The proportion of women and men contribution corresponding to the profit generated by each industry is merely the same, however women depict slightly higher percentage of profit than men.
- ☐ The target is to retain the female customers and customers belonging to eh top 3 job sectors.





Data Exploration: State and wealth segment

- New South wales seems to have highe potential customers than the other states.
- ☐ The presence of affluent, mass and High net worth customers are more in this area.
- → All the three categories of customers in the area contribute in a greater extent to the profit of the organization.
- Also, mass customers are present more in numbers than the other division of customers. Hence NSW is the target having high valued customers.

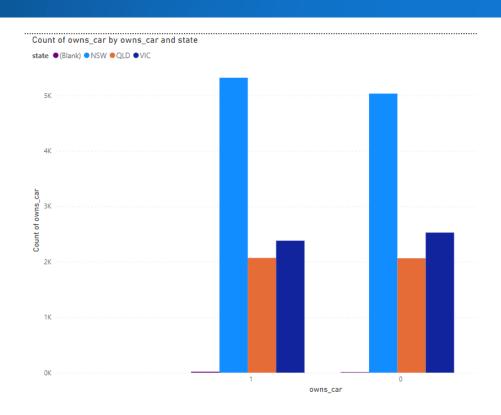


Data Exploration: Past 3 year purchase, state and brand



Data Exploration : cars owned and state

The total number of customers
Owning and not owning cars
are equal in number in the state
NSW. Hence there is a great
Chance to find the potential
Customers in this state.



Model Development

CUSTOMER CLASSIFICATION – Targeting High Value Customers

The following are the high-value clients to target from the new list:

- \square Aged between 40 50.
- ☐ Most of the high value customers are female compared to male
- □ Working in Financial Service, Manufacturing and Health.
- ☐ Who are currently living in New South Wales and Victoria.

A sample of High value customers are shown below

HIGH-VALUE CUSTOMER SUMMARY TABLE

online_ord	order_stat 🔻	list_pri ▼	standard_cc 🔻 c	customer_id	past_3_years_bike_related_purchase! wealth_segment	gender ?	state J Ag	e J owns_c	p '	brand 🔻	job_category
1	1	774.53	464.72	2332	99 High Net Worth	Male	NSW	46	8	6 Norco Bicycles	Property
1	1	1292.84	13.44	3035	98 High Net Worth	Male	NSW	43	1	5 WeareA2B	Health
1	1	1842.92	1105.75	576	98 Mass Customer	Male	NSW	46	1 7	1 Solex	Retail
1	1	688.63	612.88	262	97 High Net Worth	Male	NSW	46	1 5	6 Norco Bicycles	Health
0	1	290.62	215.14	1674	97 High Net Worth	Female	NSW	46)	0 Trek Bicycles	Manufacturing
1	1	742.54	667.4	355	97 Mass Customer	Female	NSW	44	l	9 OHM Cycles	Retail
0	1	1765.3	709.48	1507	97 High Net Worth	Male	NSW	46	1	2 Giant Bicycles	Manufacturing
0	1	1362.99	57.74	2156	96 Mass Customer	Male	NSW	46	8	9 WeareA2B	Retail
1	1	1362.99	57.74	2422	96 High Net Worth	Female	NSW	45	1	7 WeareA2B	Entertainment
0	1	290.62	215.14	2156	96 Mass Customer	Male	NSW	46	8	4 Trek Bicycles	Retail
1	1	1198.46	381.1	226	96 Mass Customer	Male	NSW	46	8 (8 Norco Bicycles	Manufacturing
0	1	441.49	84.99	226	96 Mass Customer	Male	NSW	46) 4	5 Solex	Manufacturing
0	1	792.9	594.68	3251	95 High Net Worth	Female	NSW	47	8	4 Giant Bicycles	Financial Services
1	1	1538.99	829.65	1686	95 Mass Customer	Male	NSW	43	2	5 Giant Bicvcles	Argiculture

THANK YOU