TheAnalyticsTeam

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Data analytics approach

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Agenda

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

Introduction

Customers analyze:

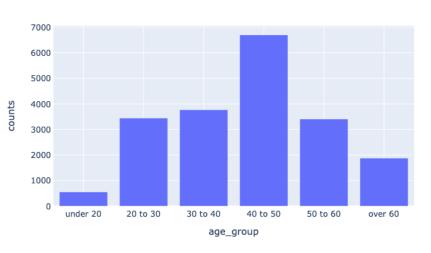
Look into these factors in customers:

- **❖** Age distributions
- Geographical &Wealth distribution
- ❖ Job industry category.
- Brelated purchases

Customers' age distribution

- ❖ Most of transactions were made by customers in age group 40 50
- ❖ The customers' age is basically normal distributed \$\frac{\psi}{2}\$
- ❖ The percentages of age group 20 30 and 30–40 are close

Transactions customer age distribution

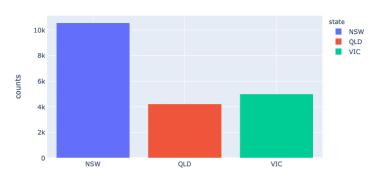


Geographical & Wealth distribution

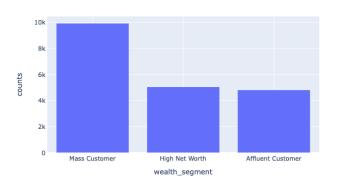
Most of transactions were made by customers in New South Wales

Most of transactions were made by customers in group Mass Customer

Transactions state distribution



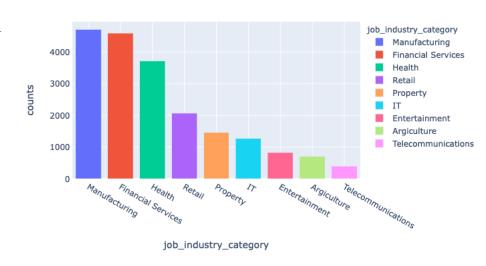
Transactions wealth_segment distribution



Customers' job industry distribution

- Most of transactions were made by customers in Manufacturing, Financial Services and Health
- ❖ The differences among rest of industries is insignificant

Transactions job_industry_category distribution



Customers' bike related purchases

- ❖ There is a significate relation between profit and whether the customer owns cars
- Cannot see a clear correlation between the profit and bike related purchases

Past_3_years_bike_related_purchases distribution



Model Development

Developed Data mining model

Top factors in term of feature importance

- past_3_years_bike_related_purchases
- age
- property_valuation
- gender
- ❖ NSW
- Mass Customer

Interpretation

Suggestions for marketing strategy towards new customers

- Focus on customers who have large amount bike related porches
- ❖ Target Male customer whose age between 40 -50 with a high property valuation
- Focus on mass customer and the New South Wales area

Appendix