Analysis of Customer Database for United Bank

Lighthouse Labs Mini Project

By: Leah Lourenco & Nitin Kohli

Project Outcomes:

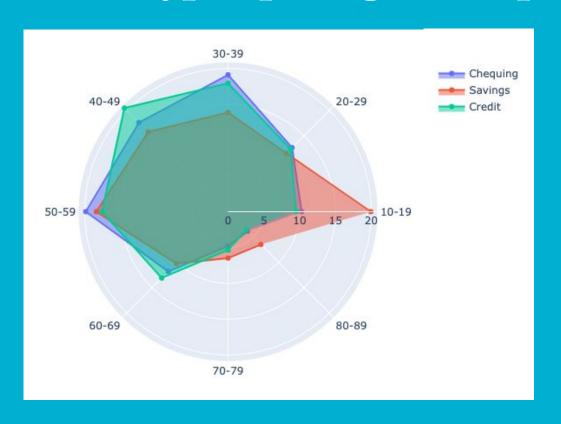
- Segmentation of customers
- Identify patterns in the clusters
- To introduce targeted marketing based upon the findings.
- For Fraud Detection.



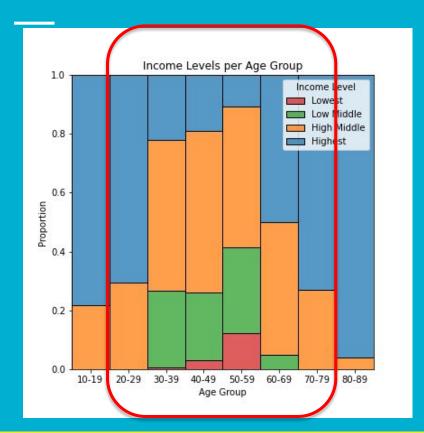
Features considered to segment and analyse the database:

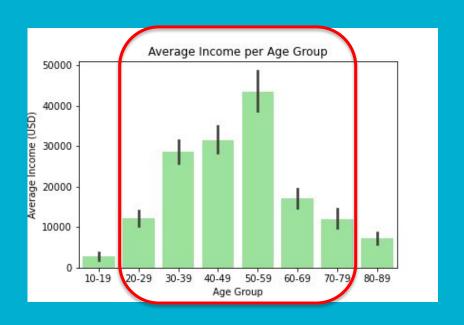
- 'Years with Bank' to reward loyal customers with incentives.
- 'Income' increased credit card limits, business accounts, line of credit.
- ☐ 'Age' retirement package, student loans
- 'Money Spent' to find spending habits of customers.
- 'Type of Account' to promote investing portfolios.

Transaction Types per Age Group



Cluster Findings Visualised:





Cluster Findings Interpreted:

1 | Age Group: 20-29

- Relatively new customers.
- Lesser income (\$10 \$15K)
- Majority of transactions from Credit Account.

2 | Age Group:30-39

- Most of customers are with the bank for < 5 years.
- Income of > \$30K.
- Transactions divided between Credit and Chequing account.

3 | Age Group: 40-49

- More loyal customers than new ones.
- Income between \$30-\$35K.
- Transactions mainly from Credit account.

Cluster Findings Interpreted:

1 | Age Group: 50-59

- Least amount of new customers.
- Highest earning group.(>\$40)
- Majority of transactions from Savings account.

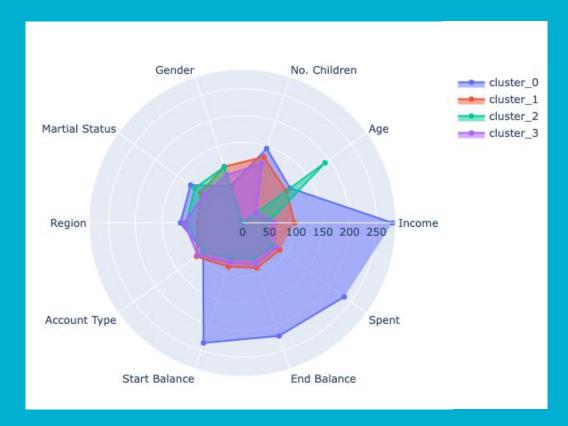
2 Age Group:60-69

- Most loyal customers in the database.
- Income from \$15-20K.
- Most of the transactions from Chequing account.

3 | Age Group: 70-79

- Majority of customers with the bank for >5 yrs.
- Income between \$10-\$15K.
- Least amount of transactions overall.

Comparing Clusters



Age x Income

PCA

