

Filter Potension Customer







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 $\underline{\text{LinkedIn}}$

Arief Mis Hargi

About Me

Professional administrative support with experience in the banking industry. wanted to bring this experience to the data role. I am skilled in analytical skills, planning, and have a strong interest in solving data analytics and data science problems with Python and SQL





Outline

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01.

Background

02.

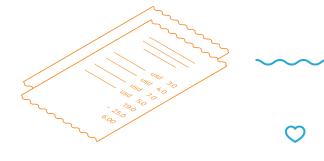
Business

Objective

03.

Exploraroty DataAnalysis

04.
Business
Recomendation





Background





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A manager at a bank was bothered by more and more customers leaving the card service.

They would really appreciate it if someone could find out customer profiles so that they could know which customers are leaving so that they could proactively approach customers to provide better service and change customers in the opposite direction.

As a team of data engineers, I want to find the elements that contribute to client reduction.





Business Objective



BUSINESS OBJECTIVE

- 1 Determine the root causes of client attrition.
- 2 Give consumers who could be at danger of attrition preventative measures.



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Exploraroty Data Analysis



Data Overview







The data consists of 10127 rows

Column description:

Clientnum: client id number

Idstatus: description of customer status

Customer_age : customer age Gender: customer gender

Number of dependents: the responsibility of the customer Educationid: information on customer education level

Marriage: marriage customer status

Income_category: customer income category Card_categoryid: type of customer's credit card

Month_on_book: period related to bank

Relationship_in_count: total product held by customer

Months_inactive_in_12_month: number of months of inactivity in the last 12 months

Contacts_Count_12_mon: total contacted by bank in the last 12 months

Credit limit: credit limit

Total Revolving Credit Card Balance: total revolving balance on credit cards

Avg_open_to_buy: bought by credit card in the last 12 months

Total_trans_amt : number of transactions
Total_trans_ct : transaction frequency

Avg_utilization_ratio: average credit card usage ratio

Database Category_db = data category of the credit card service used

Database Education_db = Education customer level data Marriage Database_db = marriage customer status data

Database Status_db = data on the status of existing/dressed customers













Customer Profile



Gender

Male: 47.14% Female: 52.86%

Education

High School: 19.87% Graduate: 30.88% Uneducated: 14.66% College: 10.03% Doctorate: 4.44%

Post-Graduate : 5.09% Unknown : 15.02%

Income

Less then \$40K: 35.11% \$40K - \$60K: 17.71% \$60K - \$80K: 13.85% \$80K - \$1200K: 15.19% \$120K +: 7.19% Unknown: 10.96%

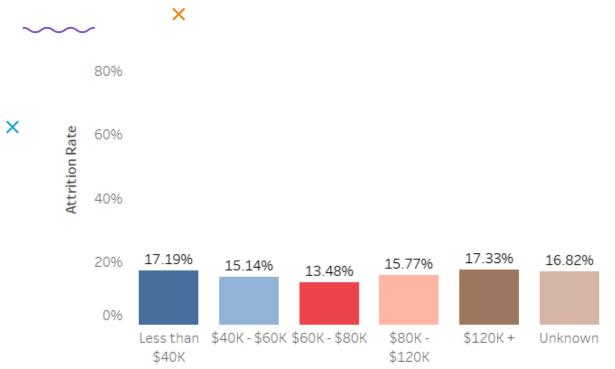
Marital Status

Single: 38.94%
Married: 46.28%
Divorced: 7.40%
Unknown: 7.39%







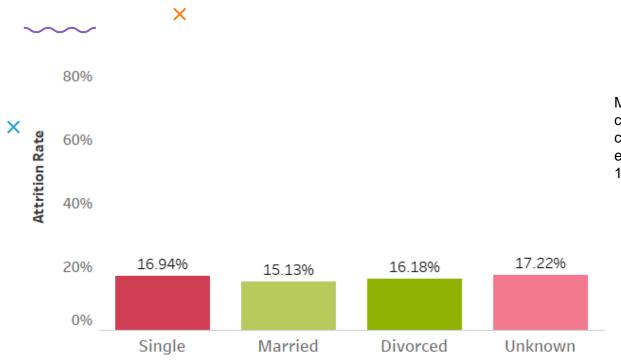


The most devoted clients were those earning between \$80K and \$120K, while those earning more over \$120K saw a 17.33% greater attrition rate than the other groups.



Exploratory Data Analysis





Married customers make up the majority of consumers, yet when compared to other customers, clients with unknown status

experience the greatest turnover rates with 17.22%.



Business Recomendation



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Business Recommendation



The following conclusions are reached as a result of the exploratory data analysis:

- The income and the number of dependents have an impact on the customer's attrition. This can make it harder for a client to pay their credit card payments.
- Filtering credit approvals to minimize the possibility that customers are unable to pay and end up leaving the use of credit cards.
- 3. To maintain devoted clients who use credit cards, provide promotions as necessary.

Thanks!

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