

Provide Insights to the Product Strategy Team of Mitron Bank



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AGENDA

1. Project Description

Problem Statement, Key Objectives & Questions, Understanding Data and Key Metric

2. Report Showcase

Understanding the key metrics and factors, uncovering trends and pattern, analysing the spend behaviour and identifying key customer segments.

3. Key Insights

Highlight key findings along with actionable recommendations to the product strategy team.





PROJECT

DESCRIPTION



PROBLEM STATEMENT



Mitron Bank aims to introduce a new line of credit cards, intending to expand its product offerings and market reach.



Mr. Bashnir Rover, the strategy director has provided sample data and requested a pilot project from **AtliQ Data Services**.



"Peter Pandey" is tasked with presenting data-driven insights to Mitron Bank's product strategy team and top-level management.



KEY OBJECTIVES

The primary objective of this report is to impress Mr. Bashnir and earn the full-scale project for **AtliQ Data Services**. This report is expected to guide them in aligning credit cards to the specific needs of different customer segments and current market trend.

- Developing KPI Dashboard
- Analyzing trends and spend behavior
- Customer segmentation
- Data-driven Recommendations





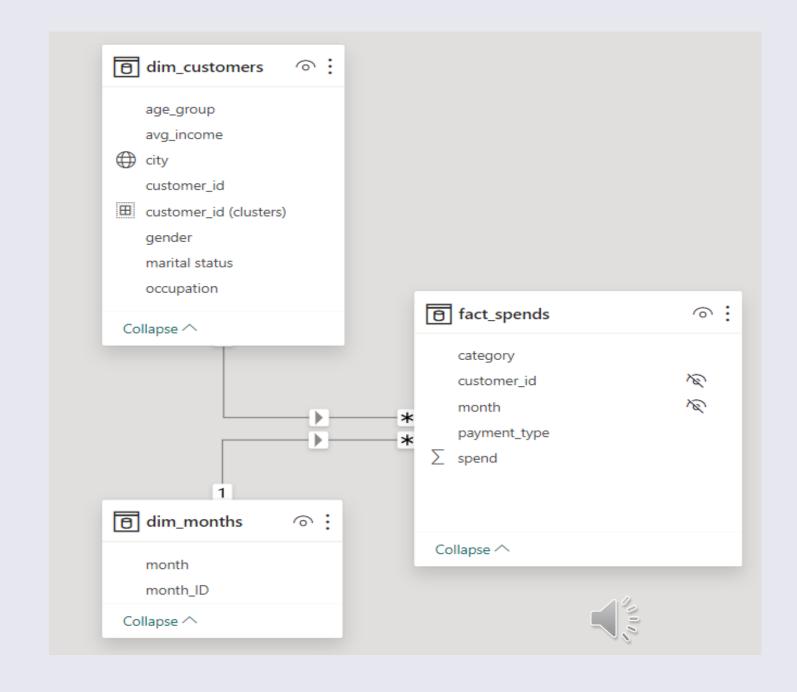
UNDERSTANDING DATA

We've been given two csv files – dim_customers and fact_spends.

- dim_customers table contains demographic details of each of the 4000 customers
- fact_spends records individual spends (transactions) along with some other details such as spend category and payment method of these customers over a period of 6 months (May to October).

NOTE:

No calendar table or date column has been provided, so I have extracted a dimension table and added a month_id column to sort the months.



UNDERSTANDING KEY METRICS

```
Income_Ut = // Avg Monthly Utilization (p.c.)
DIVIDE(
    [Avg Monthly Spend (p.c.)],
    [Avg Monthly Income (p.c.)],
    "-"
)
// It measures what proportion of his/her average monthly income
// a customer is spending in a month over a given period (here, over 6 months).
```

INTERPRETATION:

"The higher the CC_Utilization of a customer, the more is the likelihood of using credit card."

NOTE:

Avg Spend = Average Monthly Spend (p.c.)

Avg Income = Average Monthly Income (p.c.)



KEY QUESTIONS

- Are there any significant seasonal trends that the bank should consider leveraging?
- Which cities or customer segments has potential for increased credit card usage and which are risky?
- What strategic moves can help the bank improve its offerings and achieve its goals?
- What features or benefits should be prioritized in the new credit card offerings?





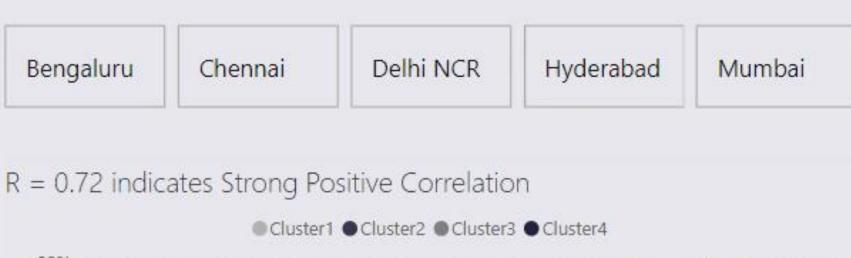
REPORT SHOWCASE

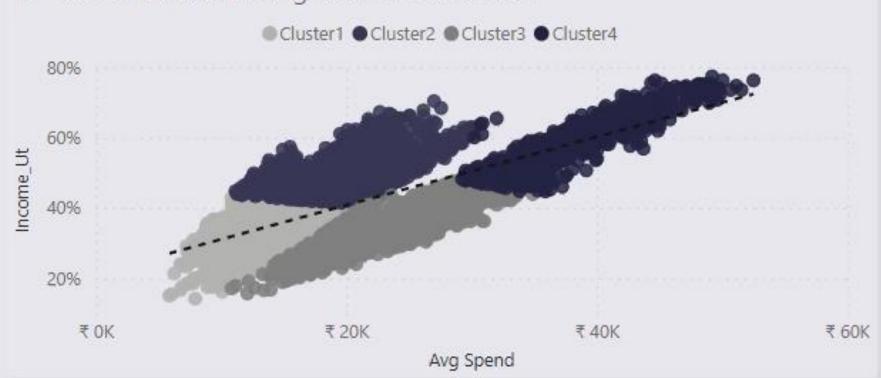
- Overview
- The Dashboard
- Segmentation Report



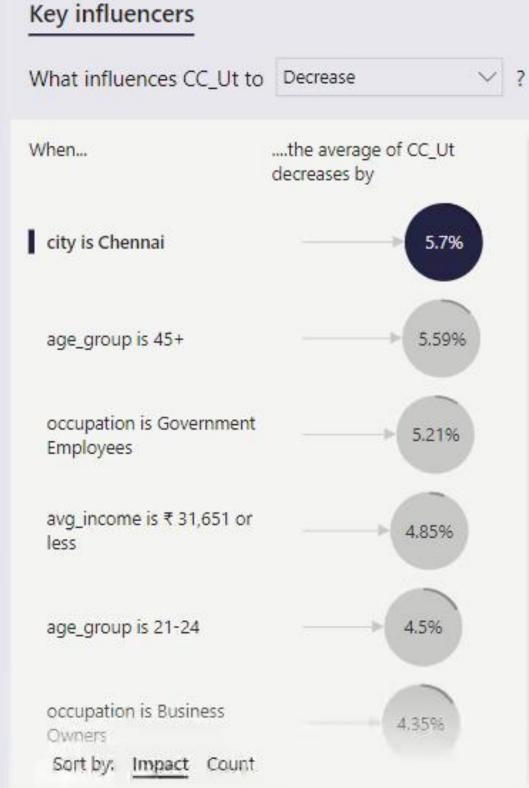
OVERVIEW

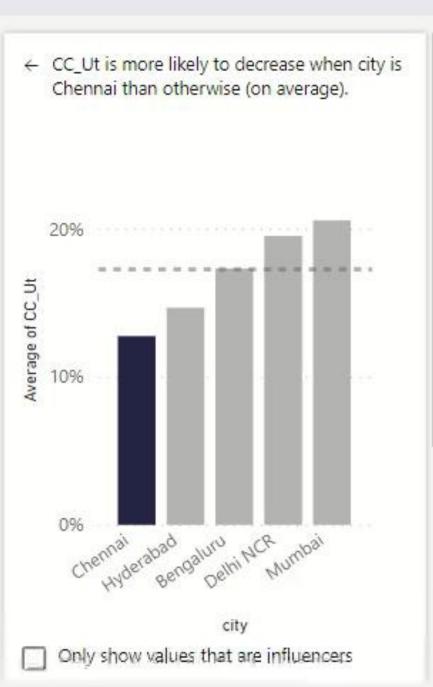
- -> Correlation doesn't imply Causation!
- -> CIty, Occupation, and Age-Group are some of the most influential factors





Clusters	Avg Spend	Avg Income	Income_Ut	Customers	CC_Ut ▼
Cluster4	₹ 38,040	₹ 64,953	58.6%	690	25.2%
Cluster2	₹ 20,031	₹ 39,133	51.2%	1,119	19.5%
Cluster3	₹ 23,930	₹ 68,406	35.0%	982	14.6%
Cluster1	₹ 13,500	₹ 42,056	32.1%	1,209	12.7%
Overall	₹ 22,121	₹ 51,657	42.8%	4,000	17.4%





CC_Ut

17.4%

±△PM : Sel. Month

Income_Ut

42.8%

±△PM : Sel. Month

Avg Spend

₹ 22.1K

±∆PM : Sel. Month

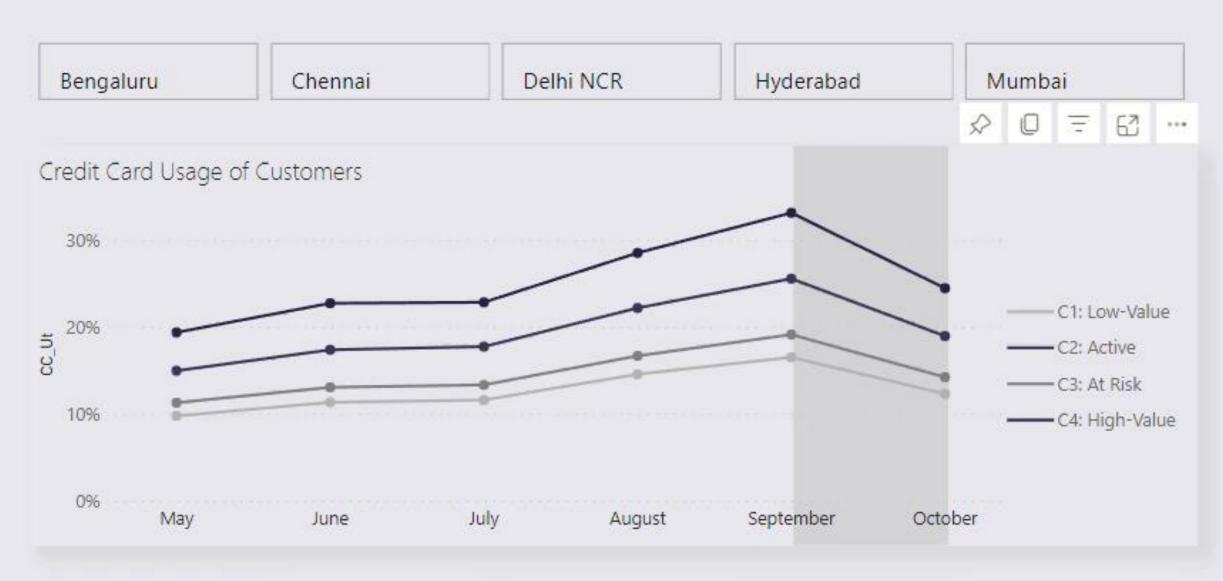
Avg Income

₹ 51.7K

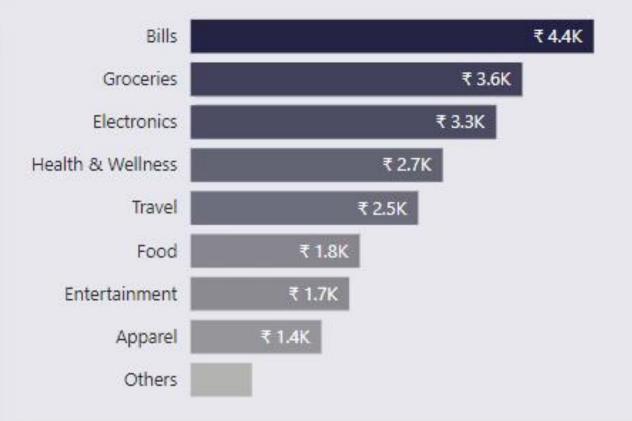
Total Customers

4,000

0











CC_Ut

17.4%

±∆PM : Sel. Month

Income_Ut

42.8%

±∆PM : Sel. Month

Avg Spend

₹ 22.1K

±△PM : Sel. Month

Avg Income

₹ 51.7K

Total Customers

4,000











Customer Count & CC_Utilization % by Occupation and Age-Groups:





C1: Low-Value

C2: Active

C3: At Risk

C4: High-Value

city	Avg Spend	Avg Income	Income_Ut ▼	Customers	CC_Ut
	₹ 26,598	₹ 51,720	51.4%	1,078	20.8%
⊕ Delhi NCR	₹ 24,966	₹ 51,983	48.0%	744	19.8%
⊞ Bengaluru	₹ 22,197	₹ 51,073	43.5%	751	17.5%
	₹ 18,977	₹ 52,345	36.3%	593	14.8%
⊕ Chennai	₹ 15,962	₹ 51,321	31.1%	834	12.9%
Total	₹ 22,121	₹ 51,657	42.8%	4,000	17.4%

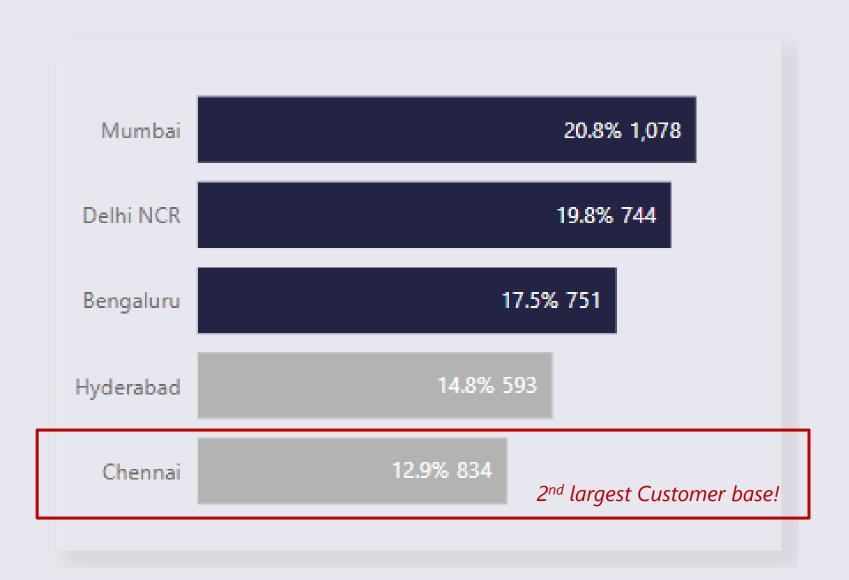


INSIGHTS



City-Level Insights

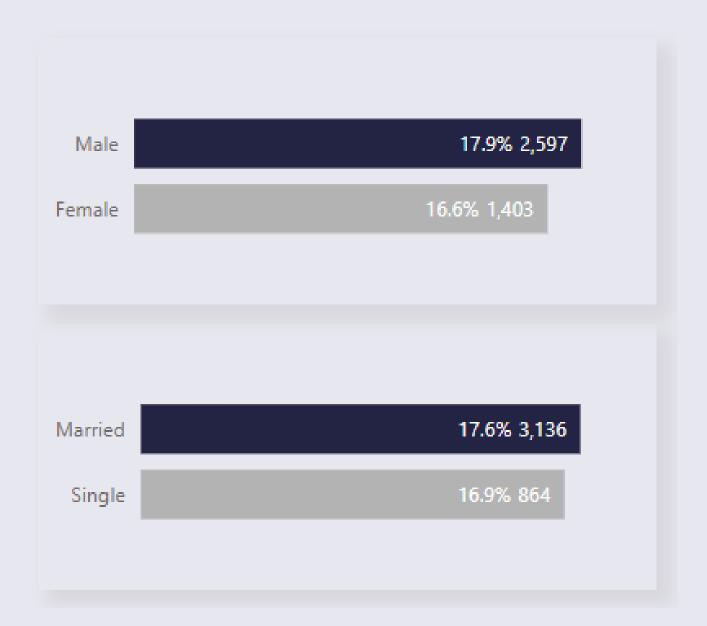
Customers based in **Hyderabad** and **Chennai** are **less likely to use credit cards** as compared to others, and this is despite **decent average income**! This represents their **conservative spending habits.**



The focus of product strategy team should be to come up with a card that can serve the basic needs of these customers while encouraging them to use credit cards for general spendings.

Offering a credit card with low interest rates and no hidden charges, or extended EMI plans could help attract them

Gender & Marital Status



TOP 3 SPEND CATEGORIES

Bills, Groceries, and Electronics (58.1%)

Health & Wellness, Bills, and Travel (47.9%)

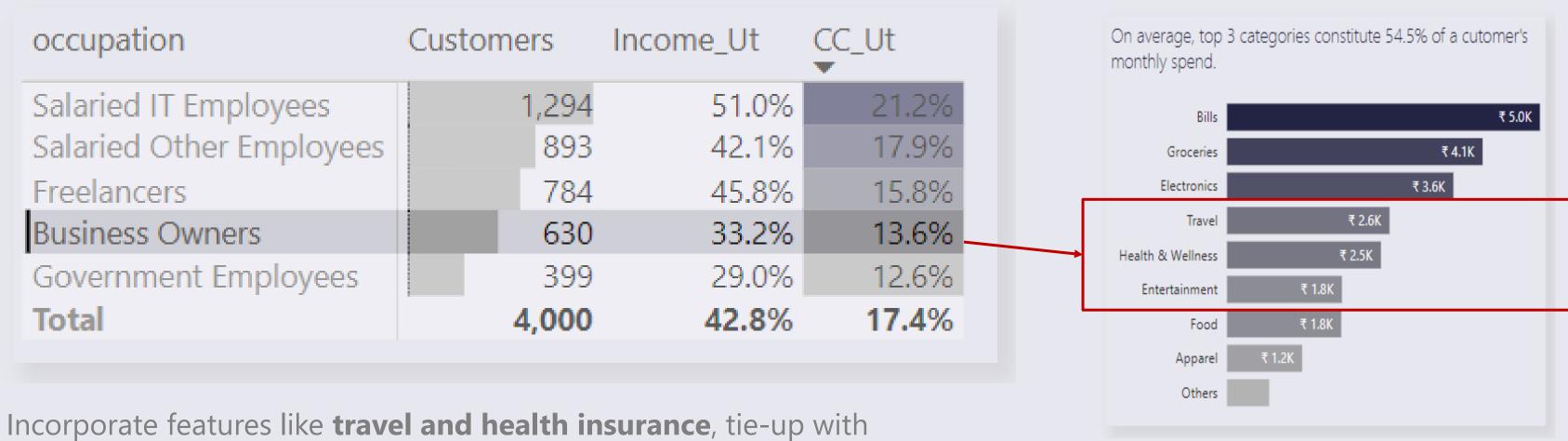
Electronics, Bills, and Entertainment (44.7%)

Bills, Groceries, and Electronics (52.5%)

We can clearly conclude that most of our customers are **male** and are mostly **married**. But despite large differences in customer count, females and singles are not much behind in terms of Credit Card Usage. Thus, the product strategy should consider addressing the needs of all these four groups.

Occupation Groups

Although there isn't much significant differences in the spend behavior of different Occupation groups, but still **Business Owners** have a slightly different spending habits.



Incorporate features like **travel and health insurance**, tie-up with **Entertainment partners** like multiplex houses or online streaming-partners to provide rewards and cashbacks. The bank also look to offer them higher **credit limits**.



Age-Group Insights

We can clearly **notice differences in spending of different age-groups**, and the product strategy can use this information to accordingly device the credit card strategy. The middle-age groups are more likely to use credit cards.

age_group	Customers	Income_Ut	CC_Ut
25-34	1,498	43.7%	20.4%
35-45	1,273	46.7%	18.1%
21-24	691	40.6%	13.7%
45+	538	34.7%	12.4%
Total	4,000	42.8%	17.4%

TOP 3 SPEND CATEGORIES

Bills, Groceries, and Health & Wellness (54.5%)

Bills, Groceries, and Electronics (56.3%)

Entertainment, Electronics, and Apparel (54.9%)

Bills, Groceries, and Health & Wellness (54.7%)

- Bills and Groceries are the top 2 spend categories across different demographic groups, as they cover daily household-expenses, and therefore the product strategy team might look for partnering with payment gateways or online grocery stores.
- Also, since customers in younger age-groups spend more towards apparel, electronics, and entertainment, adding reward points or cashbacks on these kind of transactions could help cater the needs of these age-groups.

RECOMMENDATIONS



Credit Card Type	Features	Target Audience
Premium	High Credit Limit, Exclusive Benefits (travel perks, emergency medical insurance, no forex fees).	Loyal customers with high income and spend
Elite	Moderate Credit Limit, Airport Lounge-Access, Health & Wellness benefits.	Customers with moderately high income, and those who travel more and also spend more towards health and Wellness.
Standard	Low Credit Limit, Less charges and interest, extended EMI plans, cashbacks or reward points on daily purchase, enhanced customer support.	Lower segment who generally uses credit cards for paying bills or buying electronic devices.

Which clusters impact the Bank's Business the most?

C4: High-Value segment, as the name suggests was the top contributor in the increase and decrease between August and October, followed by **C2, C3, and C1**.







Business Owners and some IT employees (conservative) with, negligible customers in the 21-24 age-group.

Other, Govt, and Freelancers with less customers in 45+ age-group.

Chennai & Hyderabad

Top 3 Cities

Standard/Elite

At-Risk

Premium

C4
High-Value

Primarily **IT employees** mainly in the **middle two age-groups**.

Standard

Low-Value

Elite/Premium

C2

Active

Freelancers, Other, & IT employees with very less customers in 45+ age-group.







Thank you!

Feel free to drop you feedbacks below in the comments or reach out to me on the below LinkedIn ID.

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