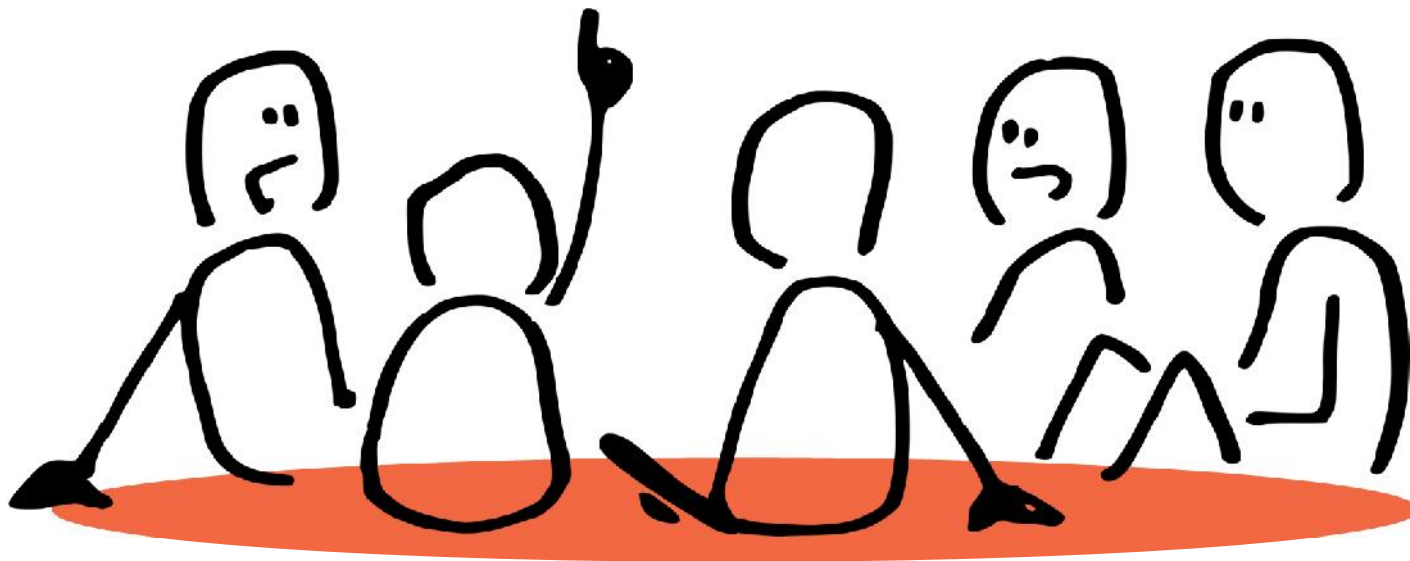


USER BEHAVIOR ANALYSIS



VIRGINIA PUTRI ANNISA

PROBLEM STATEMENT



Key Pain Points

High-risk dominance

- 53% of users are in *Low Income High Debt* → this group drives most defaults.

Low Chip Card Adoption

- Only 1.43K chip cards out of 12K total → vulnerability to fraud remains.

Spending Misalignment

- Low-income users exhibit **disproportionately high spending**, increasing credit stress.

Risk is not exclusive

- Even High-Income groups show notable risk, suggesting lifestyle-driven debt.

Minimal Gender Gap

- Male vs Female income & credit score differences are marginal → gender isn't a strong segmentation factor.

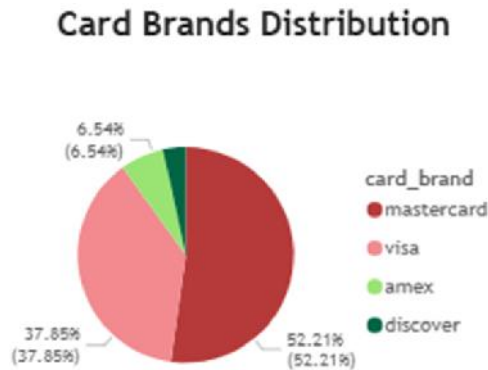
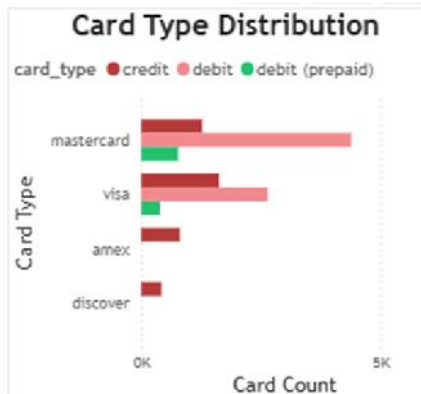


Implication: Strategies should be income/risk-driven, not gender-driven.

Cards & Transaction Behavior

Cards Total

12K



Mastercard dominates (52%) → negotiation leverage for fees & partnerships.

Credit Cards > Debit Cards → users prefer credit leverage, increasing exposure.

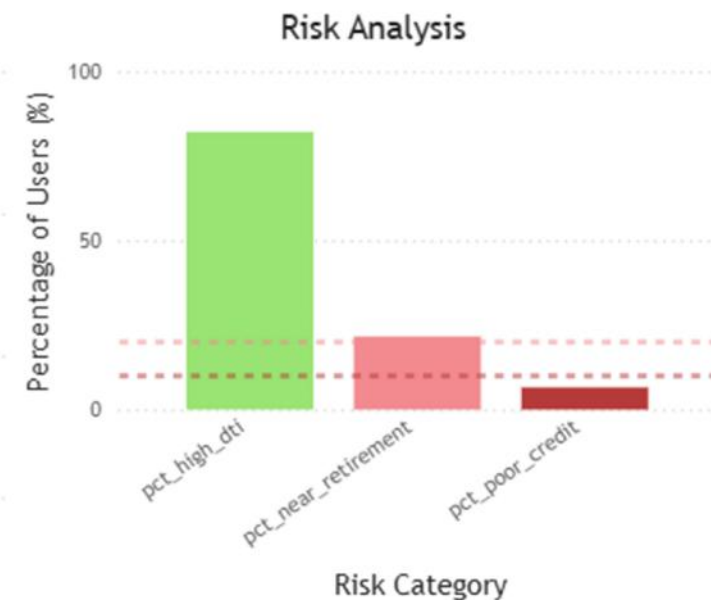
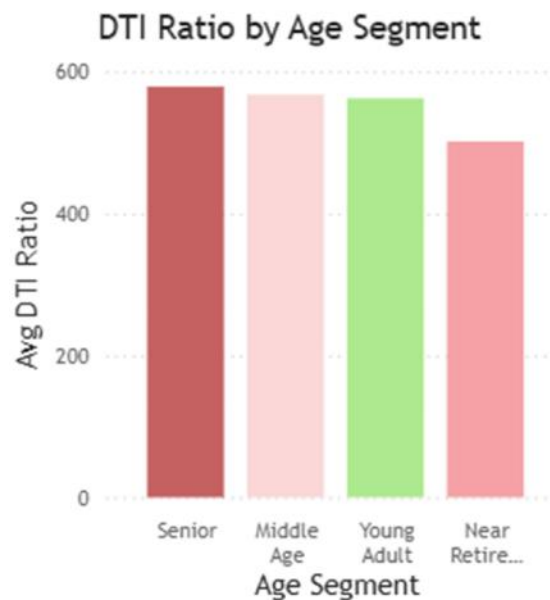
Spending Pattern → low-income group shows the **highest total spend** → unsustainable.

Chip Card Penetration: 1.43K / 12K (≈12%) → still low adoption.

Dark Web Risk = 0% → current environment safe, but must maintain vigilance.

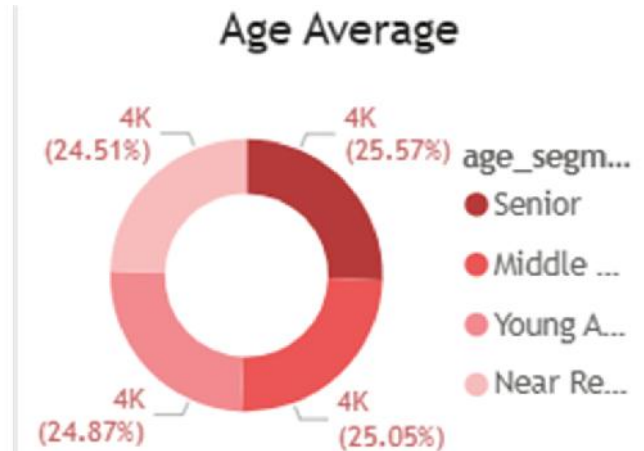
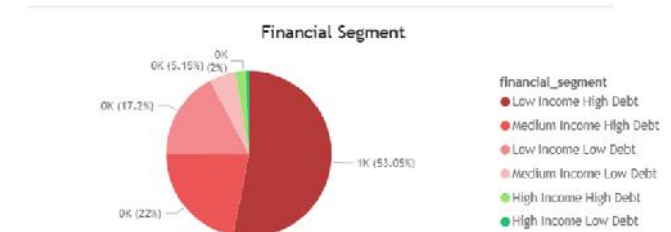
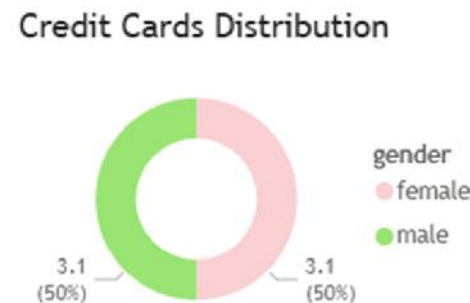
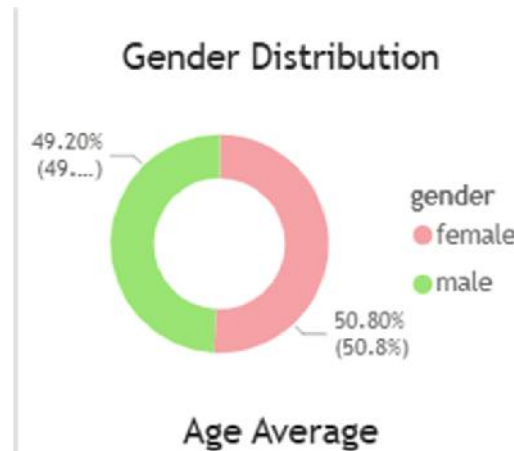
Risk & DTI

- **DTI ratios high** for Low & Medium Income segments → repayment capacity stressed.
- **High-Risk users** exist across all segments, proving **risk is not only low-income specific**.
- **Vulnerable Categories:**
- *Poor Credit* → already struggling with repayment.
- *Near Retirement* → limited time to recover from financial setbacks.

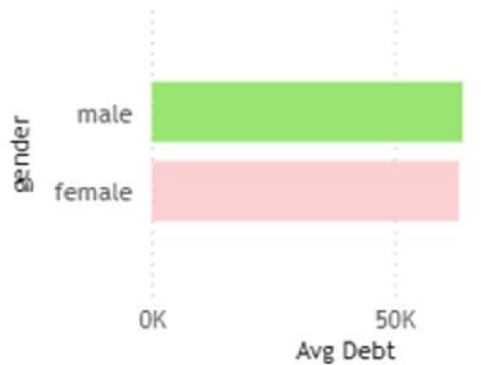


Profiling & Segmentation

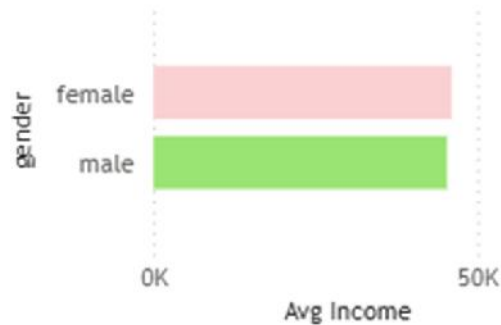
- **Balanced Age Distribution** (~25% each: Young, Middle, Senior, Near Retiree).
- **Largest Segment:** *Low Income High Debt* (53%) → main risk driver.
- **Gender Split:** almost equal (Male 49.2% vs Female 50.8%) → neutral factor.
- **Credit Card Usage:** evenly distributed across genders.



Average Debt by Gender



Average Income by Gender



Credit Score by Gender



Gender Perspective

- **Debt:** men slightly higher → aligns with marginally higher incomes.
- **Income:** men earn more, but gap is small (gender not significant).
- **Credit Score:** nearly identical → both genders show equal

Recommendations

Risk Management

- Tighten credit limits for Low Income High Debt group.
- Deploy early-warning scoring for Medium Income.

Product Strategy

- Incentivize chip card adoption (discounts, rewards).
- Leverage Mastercard dominance for stronger partnerships.

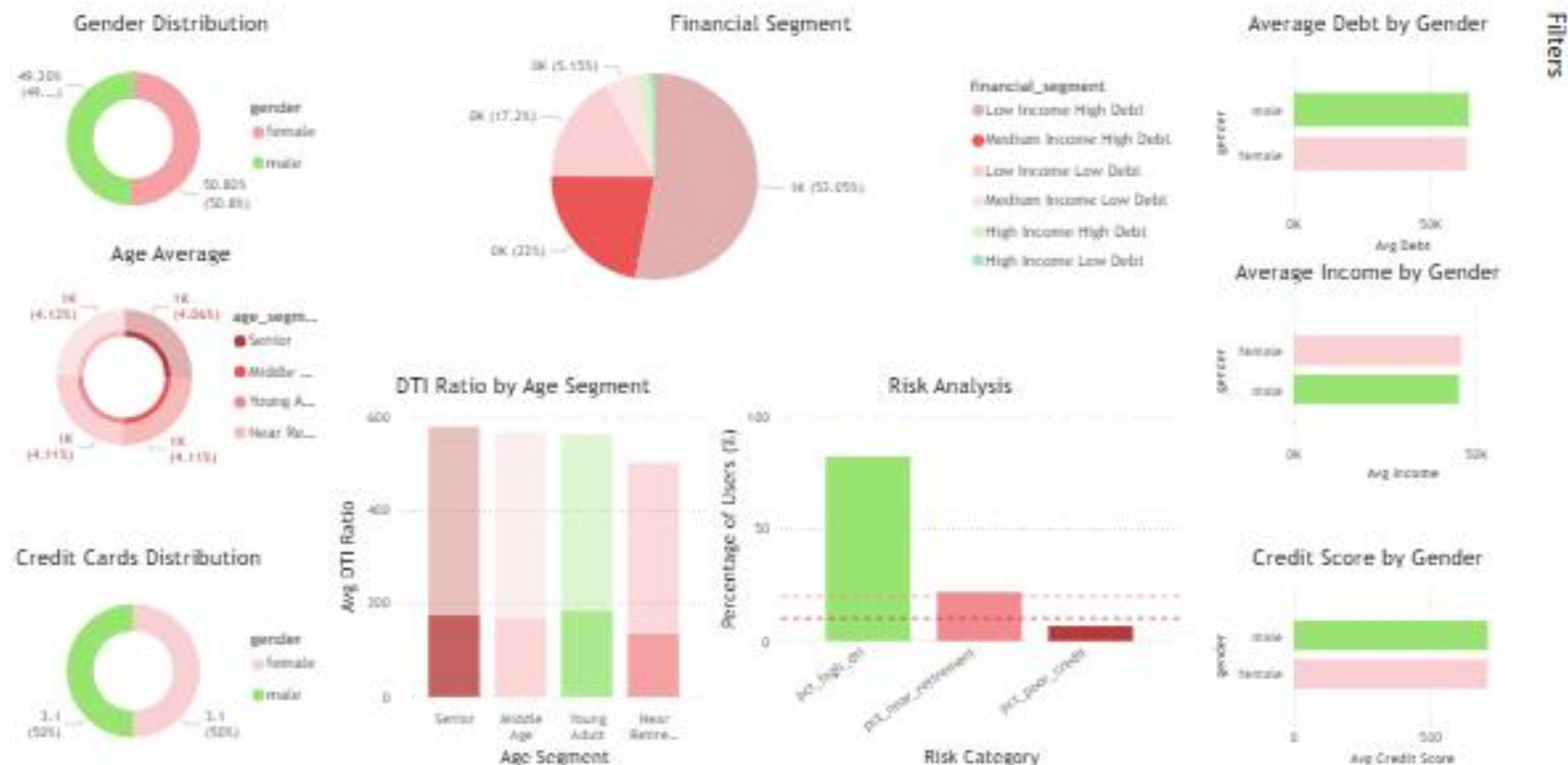
Marketing Strategy

- Use gender-neutral campaigns.
- Build financial literacy initiatives for low & medium income users.

Next Steps

- Add **time-series spending analysis** to monitor trends.
- Integrate **geographic segmentation** for regional targeting.
- Enhance **fraud detection integration**.

User Behavior Dashboard: Profiling and Segmentation



User Behavior Dashboard: Card and Transactions Behaviour

Filters

Cards Total

12K

Chip Cards

1.43K

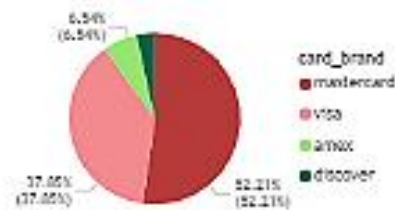
Average Credit
Score (\$)

17K

Dark Web Risk (%)

0

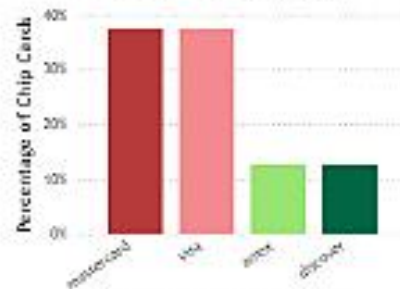
Card Brands Distribution



Card Type Distribution



Chip Card Percentage



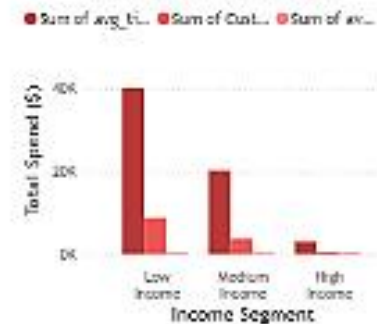
DTI by Income Segment



High Risk Percentage by
Income Segment



Transaction Behavior



User Behaviour Dashboard, Page 2

Snapshot

Data updated on 8/22/25, 11:49 AM

