

# CREDIT CARD FRAUD DASHBOARD

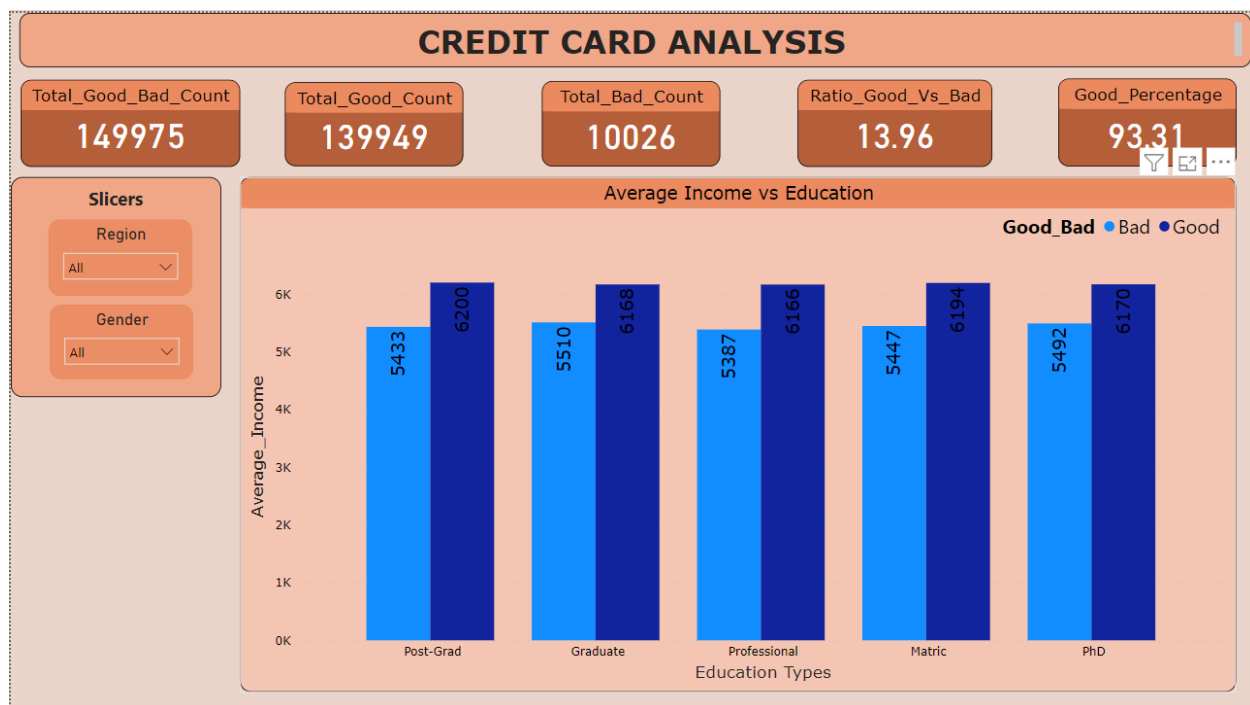
## Report 1

**1 Define Key Metrics:** Identify the credit card fraud. This report could include Average\_income, gender and data of person which are shows they are good or bad in complete payment.

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good.



**6 Income Trends:** In the bar plot shows average income with different education categories of peoples. This could include avg income and education.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise.

## **8 Conclusion:**

- The above bar plot shows in all type of gender the average income of Professionals is low (\$5387) than other education types so they are bad in payment.
- Also, Female who completed PHD they have minimum avg salary (\$5357) than others so they are also bad in make payments.

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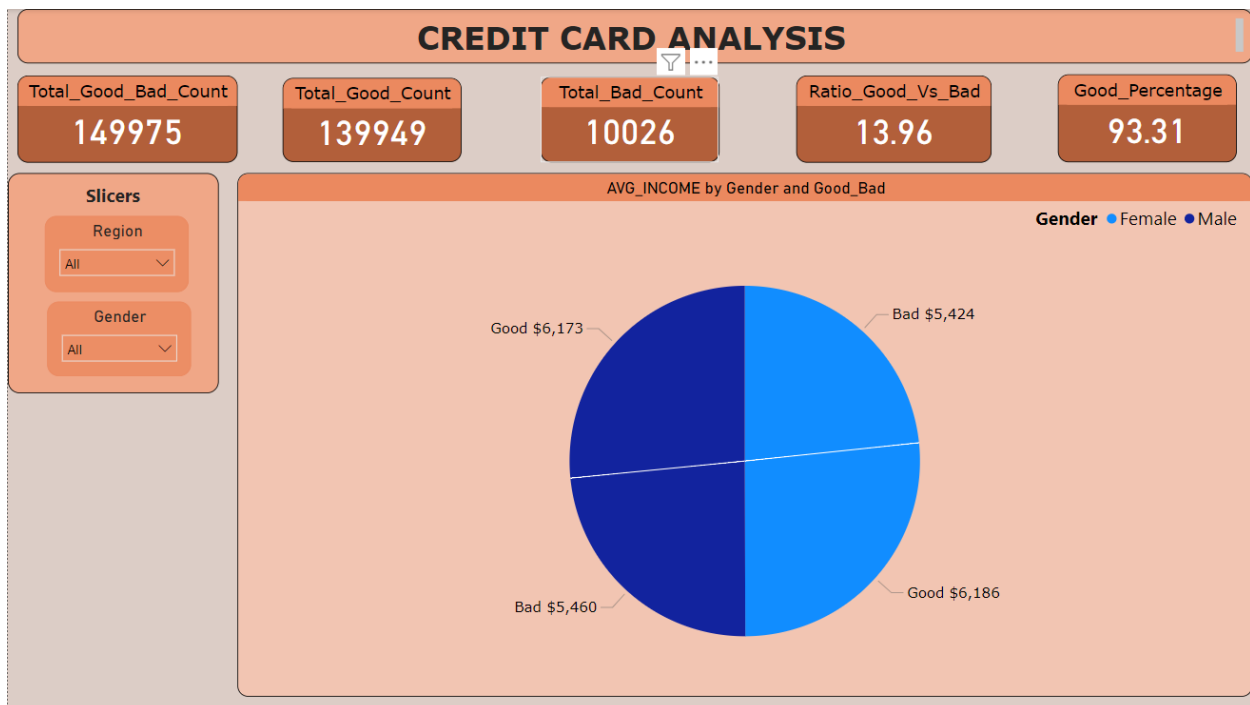
## Report 2

**1 Define Key Metrics:** Identify the credit card fraud. This report could include gender, Average income and data of people like they are good or bad..

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good. And Pie chart for shows the data for gender wise payment status.



**6 Income Trends:** In the pie chart shows average income gender wise as well as payment status.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise.

**8 Conclusion:**

- The above pie chart shows females whose Average income is (\$5423) are bad in payments.
- In the west region the good percentage is very low (83.23% ) than other regions.
- In the central region the good percentage is far better than other region (98.16% ) in both type of genders.

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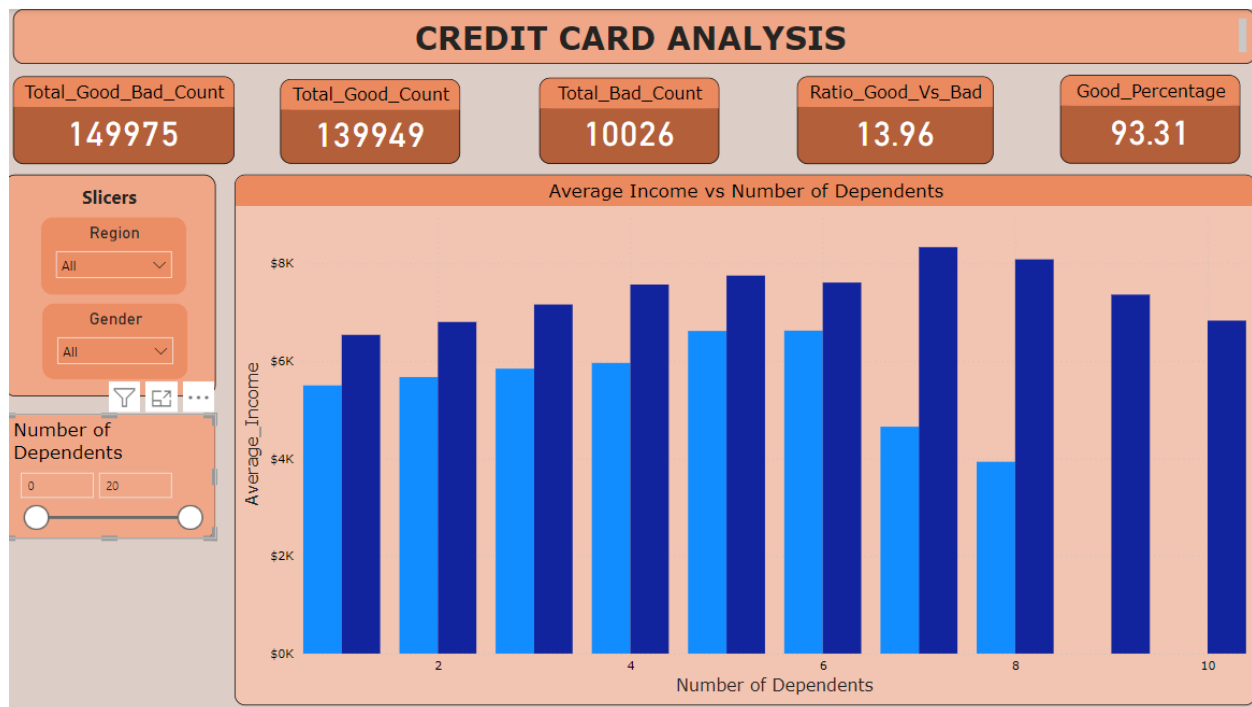
## Report 3

**1 Define Key Metrics:** Identify the credit card fraud. This report could include Average income and data of people like they are good or bad, Number of dependents like wife, childrens.

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good. And bar chart shows data between number of dependents to the Average income of person with the legend's payment status.



**6 Income Trends:** In the bar chart shows number of dependents to the average income of persons.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise as well as number of dependents.

**8 Conclusion:**

- The bad count is high (68) when the number of dependents are five. As well as average salary is also high when no of dependents are 5 but still, they are bad.
- When the number of dependents are greater than 7 then good value and percentage of good payments are high.

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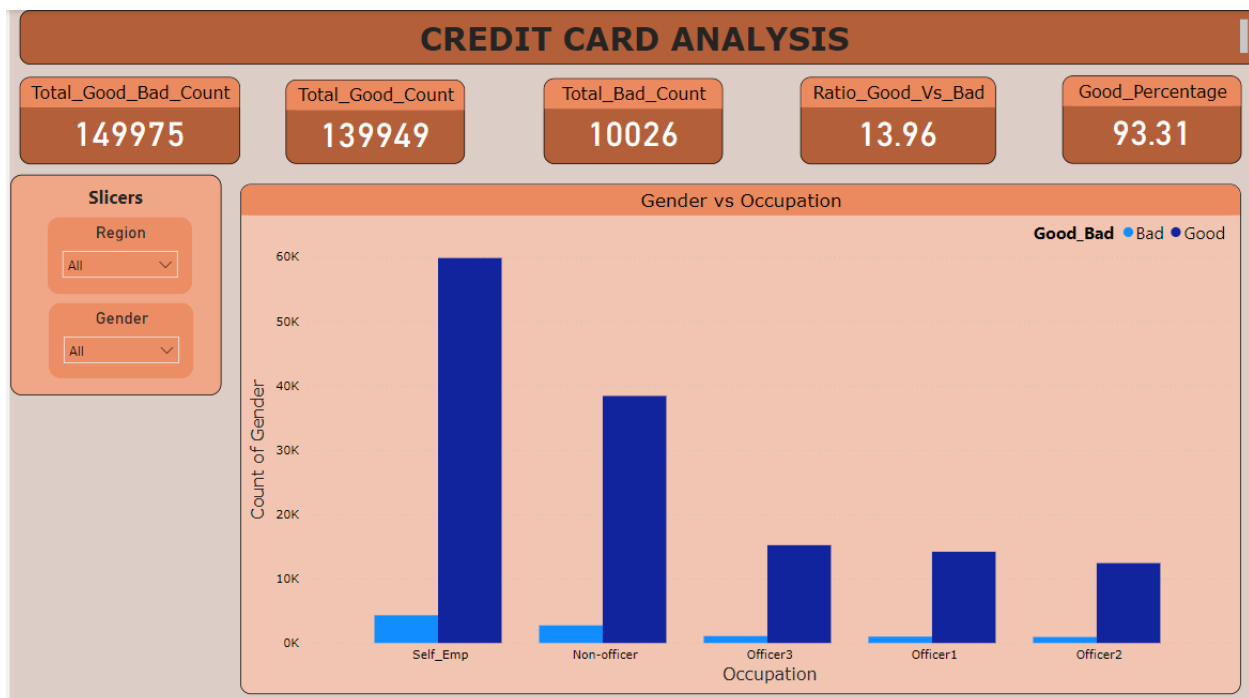
## Report 4

**1 Define Key Metrics:** Identify the credit card fraud. This report could include overall counts of gender, occupation.

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good. And bar chart shows data between overall gender count and Occupations.



**6 Income Trends:** In the bar chart shows number of gender and occupation.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise.

**8 Conclusion:**

- Who are self-employees (4303) they are bad in payment.
- But if you check overall count then female have great good percentage than male. (94.33%)
- Region wise the west region is negative in bad payments almost 1729 payment status are bad.



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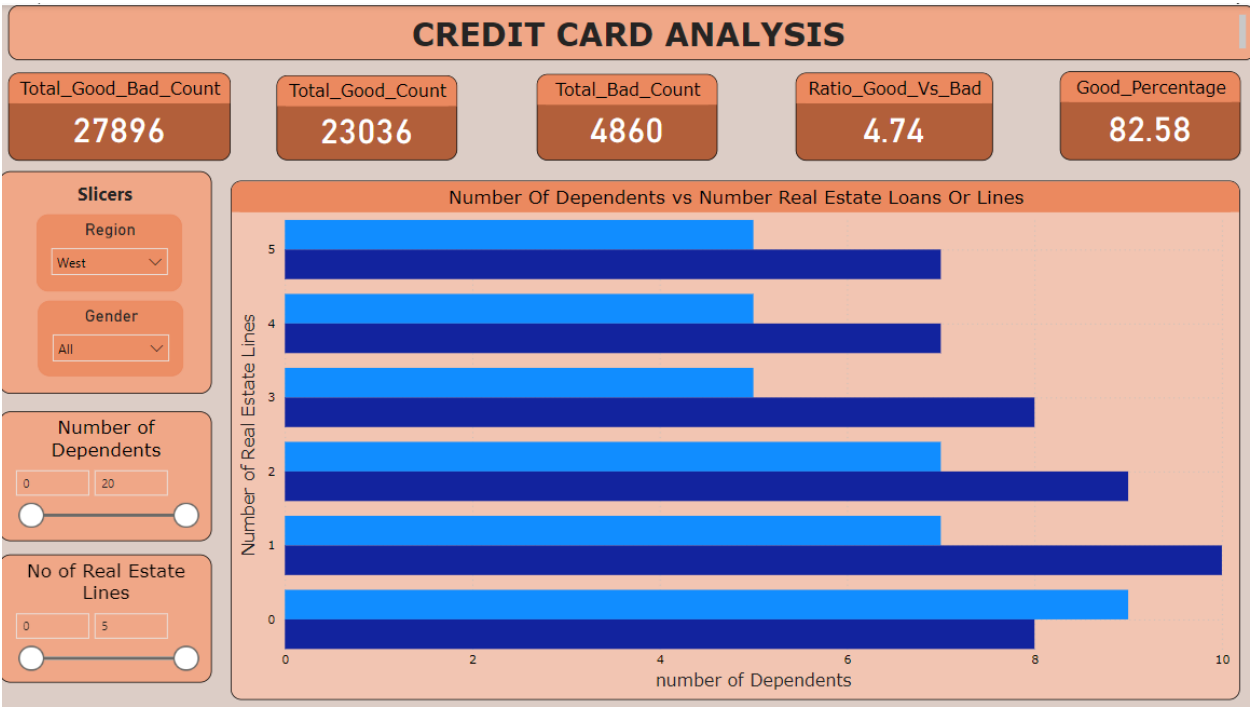
## Report 5

**1 Define Key Metrics:** Identify the credit card fraud. This report could include gender. Number of Real etstate lines and number of dependents.

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good. The clustered bar chart shows the values for number of dependents to the total number of real estates lines.



**6 Income Trends:** In the bar chart shows number of gender and occupation.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise. I add ed some extraa filters like number of dependents count and real estate's count.

**8 Conclusion:**

- Who's number of dependents is nine, and number of real estate lines is zero they have maximum number of bad payment statutes (4672) Its almost 48%.
- Female who's number of dependents are greater than 7 they are having bad payment status (2700).
- In west region bad payments status is high (2723).

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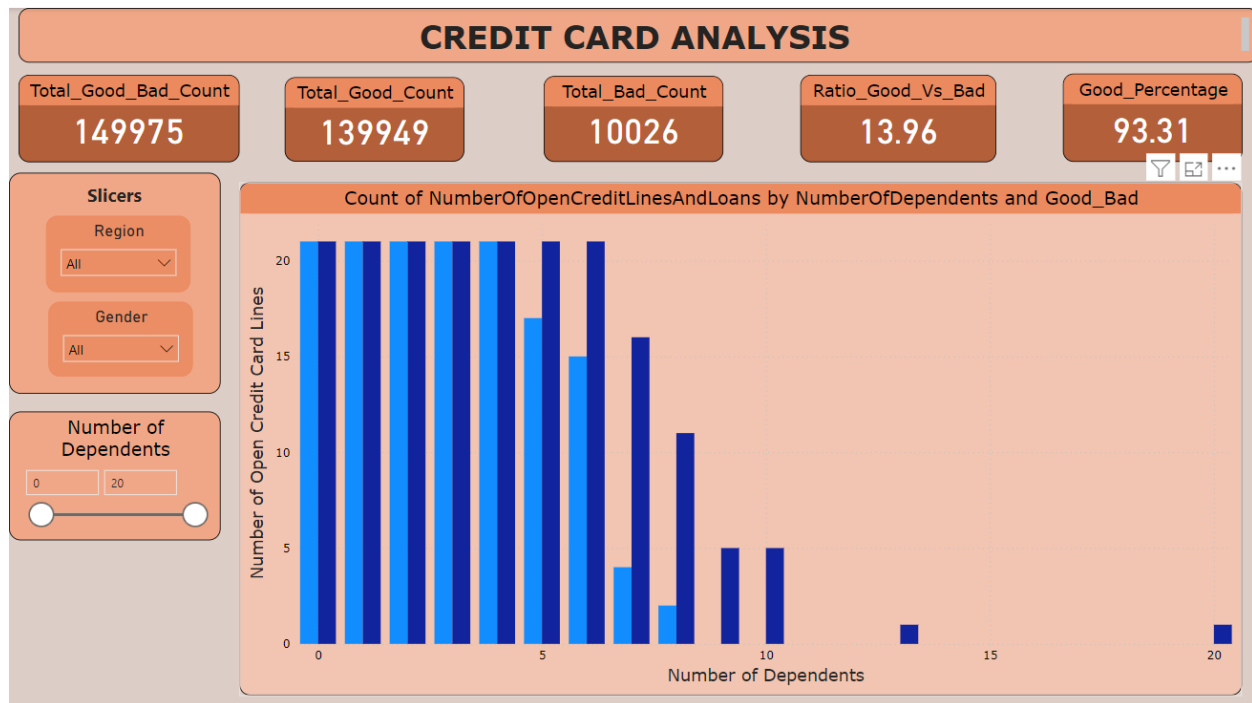
## Report 6

**1 Define Key Metrics:** Identify the credit card fraud. This report could include Payment status good or bad, Count of Open credit lines and loans.

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good. This bar chart includes data of number of dependents to the count of open credit loans and lines. And slicers for region and gender.



**6 Income Trends:** In the bar chart shows data of number of dependents to the count of open credit loans and lines.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise. I add ed some extra filters like number of dependents count and count of open credit loans and lines.

## 8 Conclusion:

- When number of dependents are greater 5 then percentage of good status payment is great.

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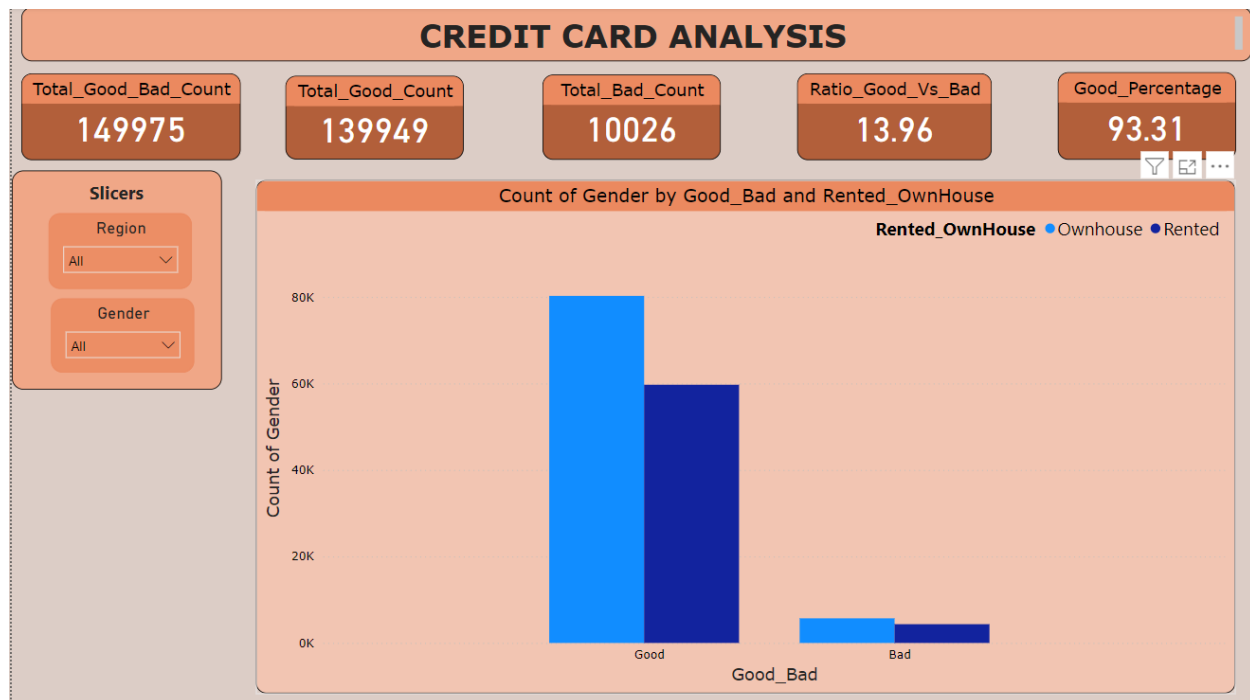
### Report 7

**1 Define Key Metrics:** Identify the credit card fraud. This report could include Gender category and House type like rented or own house.

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good. This bar chart includes Gender category and House type like rented or ownhouse.



**6 Income Trends:** In the bar chart shows data of payment status to the count of gender and slicer house type, Rented or Ownhouse.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise.

## 8 Conclusion:

- Column chart shows that male who have rented house are bad in payment status.
- North and South region peoples have large number of rented house and they are bad in payments.

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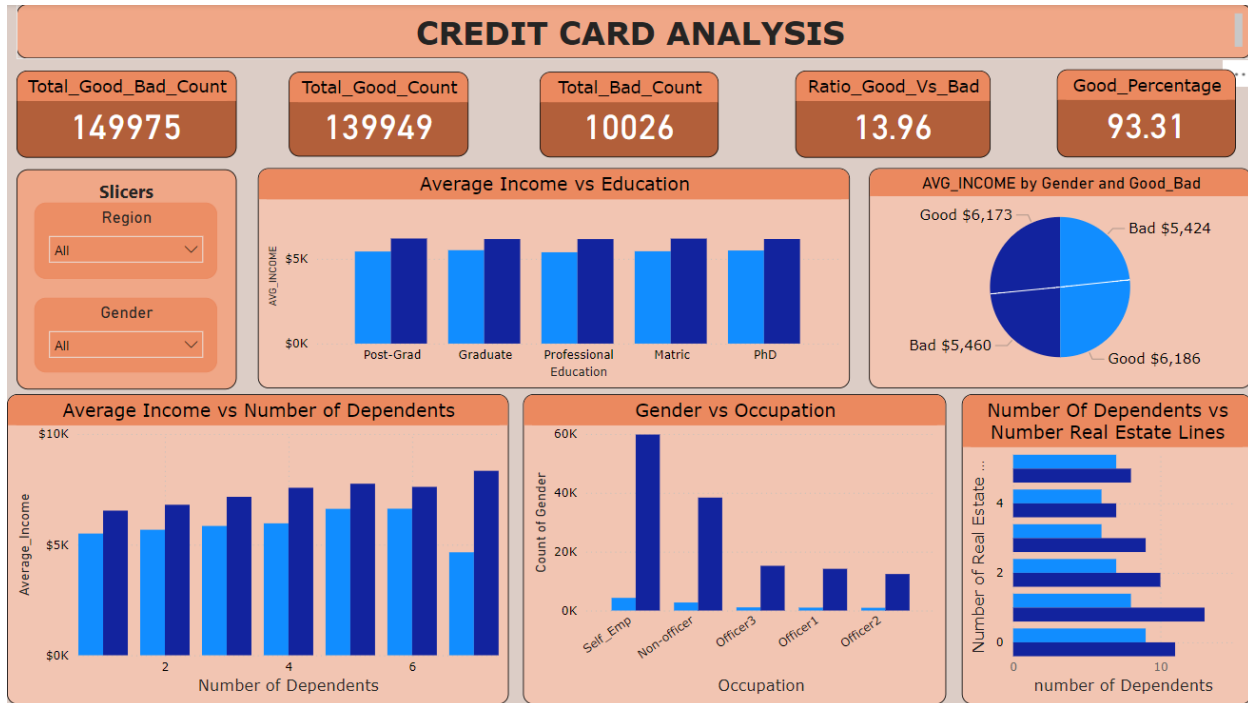
## Dashboard

**1 Define Key Metrics:** Identify the credit card fraud. This report could include different data like gender, Payment Status. Peoples open credit score, home types.

**2 Select a Dashboard Tool:** I Have chosen Microsoft Power BI to make this Dashboard. And I used python language for data cleaning like fill null values, finding outliers and handle it.

**3 Data Collection and Integration:** Collect data from different servers like postman, cloud. Integrate data sources into your dashboard tool to ensure real-time or regular updates.

**4 Design Layout:** Design the layout of dashboard. Organize it in a clear and intuitive way so users can quickly understand the information presented. Typically, have sections for total good count as well as bad count and percentage of good. Also added different plots like columns chart, bar chart, pie chart and different slicers.



**6 Credit Card Analysis:** In this dashboard included different types of plots for analysis the data. Dashboard contain bar chart, columns chart and different section for slicers. Also added card for single values regarding good value, bad value, good payment status percentage.

**7 Filters and Drill-downs:** Incorporate filters and drill-down capabilities to allow users to explore data at a more granular level. For example, users should be able to filter by region, gender wise.

## 8 Conclusion:

- The above bar plot shows in all type of gender the average income of Professionals is low (\$5387) than other education types so they are bad in payment.
- Also, Female who completed PHD they have minimum avg salary (\$5357) than others so they are also bad in make payments.
- The above pie chart shows females whose Average income is (\$5423) are bad in payments.



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- The bad count is high (68) when the number of dependents are five. As well as average salary is also high when no of dependents are 5 but still, they are bad.
- When the number of dependents are greater than 7 then good value and percentage of good payments are high.
- Who are self-employees (4303) they are bad in payment.
- But if you check overall count then female have great good percentage than male. (94.33%)
- Region wise the west region is negative in bad payments almost 1729 payment status are bad.
- Who's number of dependents is nine, and number of real estate lines is zero they have maximum number of bad payment statutes (4672) Its almost 48%.
- Female who's number of dependents are greater than 7 they are having bad payment status (2700).
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