

# Daily Transactions using Python Pandas Matplotlib and Seaborn

- INTRODUCTION

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# INTRODUCTION

This project analyzes daily financial transactions to uncover insights into spending patterns, transaction modes, and trends over time. The dataset consists of transactions categorized by mode, category, subcategory, amount, and income/expense type.

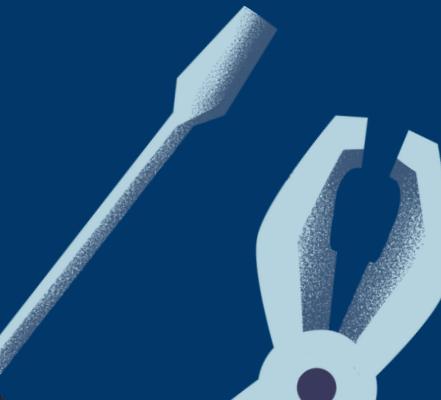
# OBJECTIVE

The objective of this project is to analyze daily financial transactions to identify trends, spending patterns, and relationships between transaction categories, modes, and income/expense types. The insights gained from this analysis can help individuals and businesses make informed financial decisions, optimize budgeting strategies, and improve financial management.

# Exploratory Data Analysis

## Transaction Counts by Category

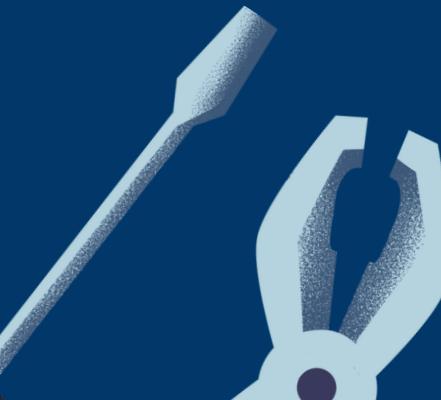
A count plot was created to visualize the number of transactions across different categories. The most frequent transaction categories were identified, providing insight into where most of the financial activity occurs.



# Exploratory Data Analysis

## Transaction Counts by Type

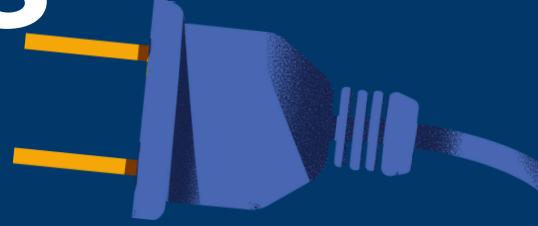
Transactions were grouped by type (Income/Expense) to compare how frequently income versus expense transactions occurred. This helped in understanding the financial balance and spending patterns.



# Exploratory Data Analysis

## Monthly Trends

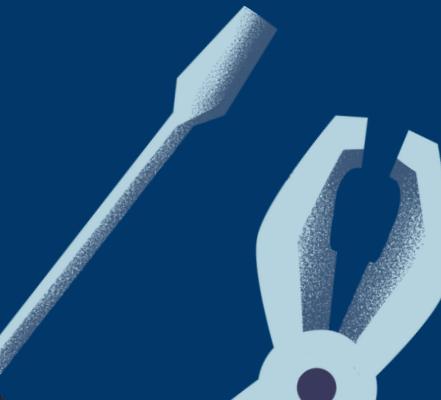
**Monthly transaction trends were analyzed to identify seasonal variations and spending patterns over time. A line plot was generated to observe fluctuations in transaction amounts per month.**



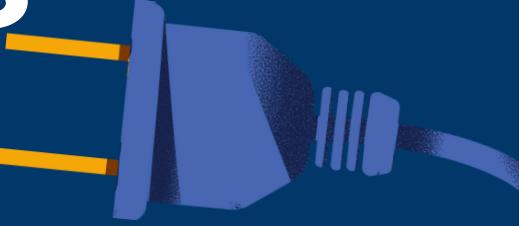
# Exploratory Data Analysis

## Top 3 Most Frequently Used Transaction Modes

The dataset was analyzed to find the top three most commonly used transaction modes, such as Savig Bank Account 1, Cash Mode, Credit Card. A bar chart was used to visualize the distribution of transactions among these modes.

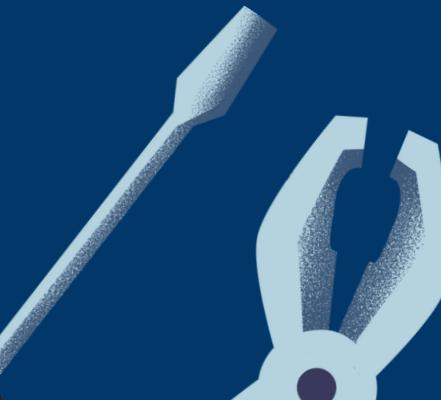


# Exploratory Data Analysis



## Top 5 Most Frequent Transaction Categories

A Bar plot was generated to show the five most frequent transaction categories. This analysis helped in understanding the primary areas of financial activity.



# Exploratory Data Analysis

## Distribution of Transaction Amounts for the Top 5 Most Common Categories

A box plot was created to visualize the distribution of transaction amounts across the top five most common categories. This helped in identifying the range, median, and potential outliers in spending patterns within these categories.

# Exploratory Data Analysis

## Relationship Between Income/Expense Values and Transaction Mode

A scatter plot was used to analyze the relationship between Income/Expense values and Transaction Modes (e.g., Cash, Credit Card, Bank Transfer). This provided insights into how different transaction modes are associated with financial inflows and outflows.

# Conclusion

This analysis provides valuable insights into daily financial transactions, helping individuals and businesses make informed financial decisions. The findings can be used for budgeting, financial planning, and optimizing transaction modes for better financial management.