Prerequisites

Before running the code, ensure you have the following installed:

- Python 3.8 or later
- Jupyter Notebook or Jupyter Lab
- Required Python libraries:
    - pandas
    - numpy
    - matplotlib
    - seaborn (optional for advanced visualizations)

How to Run

Jupyter Notebook:

1. Open the `DAProject.ipynb` file in Jupyter Notebook or Jupyter Lab.
2. Ensure the `budget.csv` file is in the same directory as the notebook.

Google Colab:

Upload Files to Colab:

1. Open Google Colab.
2. Create a new notebook or open an existing one.
3. Upload the `DAProject.ipynb` file by clicking on the folder icon in the left sidebar, then clicking the upload icon.
4. Similarly, upload the `budget.csv` file.
5. Ensure the dataset file is in the same directory as the notebook. If necessary, update the file paths in the notebook to match the location of `budget.csv`.

Run the cells sequentially to:

- Load and preprocess the data.
- Perform exploratory data analysis (EDA).
- Generate visualizations and insights.

Features

- **Data Loading**: Reads budget data from `budget.csv`.
- **Preprocessing**: Cleans and organizes data for analysis.

- **Visualization**: Includes bar charts, line graphs, and other visualizations to highlight budget trends and insights.

Output

The analysis provides insights into:

- Budget allocation trends over years.
- Significant changes in various budget categories.
- Correlations between different budgetary components.