The program allows users to load a dataset containing unemployment data and visualize the unemployment rate over time. It is particularly useful for analyzing trends in unemployment, such as those observed during the COVID-19 pandemic.

**Key Features:**

**1. Dataset Loading:**

- The program provides a button to load a CSV file containing unemployment data.

- It uses the filedialog module from Tkinter to allow users to select a CSV file from their system.

- Once the file is selected, the program reads the data into a Pandas DataFrame.

**2. Data Analysis:**

- After loading the dataset, users can click the "Analyze Unemployment" button to visualize the unemployment rate over time.

- The program assumes the dataset contains two specific columns: Date and Unemployment Rate.

- It converts the Date column to a datetime format and plots the unemployment rate against the date using Matplotlib.

**3. \*Error Handling:\***

- The program includes error handling to manage issues such as:

- Failure to load the dataset (e.g., incorrect file format).

- Missing required columns (Date or Unemployment Rate).

- Other unexpected errors during data processing or visualization.

**4. User Interface:**

- The GUI is built using Tkinter, a standard Python library for creating graphical interfaces.

- The interface includes:

- A title label: "Unemployment Analysis Tool."

- Two buttons: "Load Dataset" and "Analyze Unemployment."

- The interface is simple and user-friendly, making it accessible for users with minimal technical expertise.

**How It Works:**

**1. Loading the Dataset:**

- When the user clicks the "Load Dataset" button, a file dialog opens, allowing them to select a CSV file.

- The program reads the file into a Pandas DataFrame and stores it in a global variable (data).

- If the file is loaded successfully, a success message is displayed.

**2. Analyzing Unemployment:**

- When the user clicks the "Analyze Unemployment" button, the program checks if the dataset has been loaded.

- If the dataset is available, it processes the data:

- Converts the Date column to a datetime format.

- Plots the Unemployment Rate against the Date using a line plot with markers.

- The plot is displayed in a new window, showing the trend of unemployment over time.

**3. Error Handling:**

- If the user tries to analyze the data without loading a dataset, an error message is displayed.

- If the dataset does not contain the required columns (Date or Unemployment Rate), an error message is shown.

- Any other unexpected errors during data processing or visualization are caught and displayed to the user.

**Assumptions:**

- The dataset is in CSV format.

- The dataset contains at least two columns: Date and Unemployment Rate.

- The Date column is in a format that can be parsed by Pandas (e.g., YYYY-MM-DD).

- The Unemployment Rate column contains numerical values representing the unemployment rate as a percentage.

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