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import pandas as pd

# File paths to the uploaded CSV files
file_path_1 = '/content/Unemployment_Rate_upto_11_2020.csv'
file_path_2 = '/content/Unemployment in India.csv'

# Load the CSV files into DataFrames
df1 = pd.read_csv(file_path_1)
df2 = pd.read_csv(file_path_2)

# Display the first few rows of each dataset
print("Dataset 1 Head (Unemployment Rate up to 11_2020):")
print(df1.head())

print("\nDataset 2 Head (Unemployment in India):")
print(df2.head())
# Check if necessary columns exist in Dataset 1
if 'Unemployed_Persons' in df1.columns and 'Labor_Force' in df1.columns:
    # Calculate the Unemployment Rate
    df1['Unemployment_Rate'] = (df1['Unemployed_Persons'] / df1['Labor_Force']) * 100

    # Display the DataFrame with the calculated Unemployment Rate
    print("\nCalculated Unemployment Rates for Dataset 1:")
    print(df1[['Year', 'Month', 'Unemployment_Rate']].head())

# Example: Plotting the Unemployment Rate over time for Dataset 1
import matplotlib.pyplot as plt

if 'Year' in df1.columns and 'Month' in df1.columns and 'Unemployment_Rate' in df1.columns:
    plt.figure(figsize=(10, 6))
    plt.plot(df1['Year'].astype(str) + '-' + df1['Month'], df1['Unemployment_Rate'], marker='o', linestyle='--')
    plt.title('Unemployment Rate Over Time (Dataset 1)')
    plt.xlabel('Time')
    plt.ylabel('Unemployment Rate (%)')
    plt.xticks(rotation=45)
    plt.grid(True)
    plt.show()

# Display summary statistics for Dataset 2
print("\nSummary Statistics for Dataset 2:")
print(df2.describe())

# Example: Plotting any relevant data from Dataset 2
if 'Date' in df2.columns and 'Unemployment_Rate' in df2.columns:
    plt.figure(figsize=(10, 6))
    plt.plot(pd.to_datetime(df2['Date']), df2['Unemployment_Rate'], marker='o', linestyle='--', color='r')
    plt.title('Unemployment Rate Over Time (Dataset 2)')
    plt.xlabel('Date')
    plt.ylabel('Unemployment Rate (%)')
    plt.grid(True)
    plt.show()

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↗ Dataset 1 Head (Unemployment Rate up to 11_2020):

	Region	Date	Frequency	Estimated Unemployment Rate (%) \
0	Andhra Pradesh	31-01-2020	M	5.48
1	Andhra Pradesh	29-02-2020	M	5.83
2	Andhra Pradesh	31-03-2020	M	5.79
3	Andhra Pradesh	30-04-2020	M	20.51
4	Andhra Pradesh	31-05-2020	M	17.43

	Estimated Employed	Estimated Labour Participation Rate (%)	Region.1 \
0	16635535	41.02	South
1	16545652	40.90	South
2	15881197	39.18	South
3	11336911	33.10	South
4	12988845	36.46	South

	longitude	latitude
0	15.9129	79.74
1	15.9129	79.74
2	15.9129	79.74
3	15.9129	79.74
4	15.9129	79.74

Dataset 2 Head (Unemployment in India):

	Region	Date	Frequency	Estimated Unemployment Rate (%) \
0	Andhra Pradesh	31-05-2019	Monthly	3.65
1	Andhra Pradesh	30-06-2019	Monthly	3.05
2	Andhra Pradesh	31-07-2019	Monthly	3.75
3	Andhra Pradesh	31-08-2019	Monthly	3.32
4	Andhra Pradesh	30-09-2019	Monthly	5.17

	Estimated Employed	Estimated Labour Participation Rate (%)	Area
0	11999139.0	43.24	Rural
1	11755881.0	42.05	Rural

2	12086707.0	43.50	Rural
3	12285693.0	43.97	Rural
4	12256762.0	44.68	Rural

Summary Statistics for Dataset 2:

	Estimated Unemployment Rate (%)	Estimated Employed \
count	740.000000	7.400000e+02
mean	11.787946	7.204460e+06
std	10.721298	8.087988e+06
min	0.000000	4.942000e+04
25%	4.657500	1.190404e+06
50%	8.350000	4.744178e+06
75%	15.887500	1.127549e+07
max	76.740000	4.577751e+07

	Estimated Labour Participation Rate (%)
count	740.000000
mean	42.630122
std	8.111094
min	13.330000
25%	38.062500
50%	41.160000
75%	45.505000
max	72.570000