Features: Importing and Analyzing Data: Utilize Pandas for data handling. Key Macroeconomic Indicators: GDP growth, Inflation rate, Unemployment rate, and Export-Import data. Visualizations: Generate line charts, bar plots, and pie charts for insights. User Interaction: Interactive input to filter or focus on specific economic indicators.

In [1]:
```
pip install pandas matplotlib seaborn
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: pandas in c:\users\purnangshu roy\appdata\roaming\python\python311\site-packages (2.2.3)
Requirement already satisfied: matplotlib in c:\users\purnangshu roy\appdata\roaming\python\python311\site-packages (3.9.2)
Requirement already satisfied: seaborn in c:\programdata\anaconda3\lib\site-packages (0.12.2)
Requirement already satisfied: numpy>=1.23.2 in c:\users\purnangshu roy\appdata\roaming\python\python311\site-packages (from panda
s) (2.1.3)
Requirement already satisfied: python-dateutil>=2.8.2 in c:\programdata\anaconda3\lib\site-packages (from pandas) (2.8.2)
Requirement already satisfied: pytz>=2020.1 in c:\programdata\anaconda3\lib\site-packages (from pandas) (2022.7)
Requirement already satisfied: tzdata>=2022.7 in c:\users\purnangshu roy\appdata\roaming\python\python311\site-packages (from panda
s) (2024.2)
Requirement already satisfied: contourpy>=1.0.1 in c:\programdata\anaconda3\lib\site-packages (from matplotlib) (1.0.5)
Requirement already satisfied: cycler>=0.10 in c:\programdata\anaconda3\lib\site-packages (from matplotlib) (0.11.0)
Requirement already satisfied: fonttools>=4.22.0 in c:\programdata\anaconda3\lib\site-packages (from matplotlib) (4.25.0)
Requirement already satisfied: kiwisolver>=1.3.1 in c:\programdata\anaconda3\lib\site-packages (from matplotlib) (1.4.4)
Requirement already satisfied: packaging>=20.0 in c:\users\purnangshu roy\appdata\roaming\python\python311\site-packages (from matp
lotlib) (24.0)
Requirement already satisfied: pillow>=8 in c:\programdata\anaconda3\lib\site-packages (from matplotlib) (9.4.0)
Requirement already satisfied: pyparsing>=2.3.1 in c:\programdata\anaconda3\lib\site-packages (from matplotlib) (3.0.9)
Requirement already satisfied: six>=1.5 in c:\programdata\anaconda3\lib\site-packages (from python-dateutil>=2.8.2->pandas) (1.16.
0)
Note: you may need to restart the kernel to use updated packages.
```

In [2]:
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Sample Data Creation
data = {
    "Year": [2023, 2024],
    "GDP Growth (%)": [6.2, 6.4],
    "Inflation Rate (%)": [5.8, 5.6],
    "Unemployment Rate (%)": [7.2, 6.8],
    "Exports (Billion USD)": [700, 750],
    "Imports (Billion USD)": [650, 680]
}

# Convert to DataFrame
```

```
df = pd.DataFrame(data)

# Display the DataFrame
print("Macroeconomic Data (India 2023-2024):")
print(df)

# Generate Charts
plt.figure(figsize=(12, 6))

# GDP Growth and Inflation Rate Comparison
plt.subplot(2, 2, 1)
sns.lineplot(x="Year", y="GDP Growth (%)", data=df, marker="o", label="GDP Growth")
sns.lineplot(x="Year", y="Inflation Rate (%)", data=df, marker="o", label="Inflation Rate")
plt.title("GDP Growth vs Inflation Rate")
plt.xlabel("Year")
plt.ylabel("Percentage")
plt.legend()

# Unemployment Rate
plt.subplot(2, 2, 2)
sns.barplot(x="Year", y="Unemployment Rate (%)", data=df, palette="Blues")
plt.title("Unemployment Rate")
plt.xlabel("Year")
plt.ylabel("Percentage")

# Export-Import Analysis
plt.subplot(2, 2, 3)
plt.plot(df["Year"], df["Exports (Billion USD)"], marker="o", label="Exports", color="green")
plt.plot(df["Year"], df["Imports (Billion USD)"], marker="o", label="Imports", color="red")
plt.title("Exports vs Imports")
plt.xlabel("Year")
plt.ylabel("Billion USD")
plt.legend()

# Export-Import Share in 2024 Pie Chart
plt.subplot(2, 2, 4)
export_import = [df.loc[df['Year'] == 2024, "Exports (Billion USD)"].values[0],
                 df.loc[df['Year'] == 2024, "Imports (Billion USD)"].values[0]]
plt.pie(export_import, labels=["Exports", "Imports"], autopct='%1.1f%%', colors=['green', 'red'])
plt.title("Exports vs Imports Share (2024)")

# Save and Show Plot
plt.tight_layout()
```

```
plt.savefig("Indian_Economy_2023_2024.png")
plt.show()
```

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  File "C:\ProgramData\anaconda3\Lib\site-packages\ipykernel\zmqshell.py", line 531, in run_cell
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    import pandas as pd
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\__init__.py", line 39, in <module>
    from pandas.compat import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\compat\__init__.py", line 27, in <module>
    from pandas.compat.pyarrow import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\compat\pyarrow.py", line 8, in <module>
    import pyarrow as pa
  File "C:\ProgramData\anaconda3\Lib\site-packages\pyarrow\__init__.py", line 65, in <module>
    import pyarrow.lib as _lib
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
AttributeError: _ARRAY_API not found
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    res = shell.run_cell(
  File "C:\ProgramData\anaconda3\Lib\site-packages\ipykernel\zmqshell.py", line 531, in run_cell
    return super().run_cell(*args, **kwargs)
  File "C:\ProgramData\anaconda3\Lib\site-packages\IPython\core\interactiveshell.py", line 3006, in run_cell
    result = self._run_cell(
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    from pandas.core.api import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\api.py", line 9, in <module>
    from pandas.core.dtypes.dtypes import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\dtypes\dtypes.py", line 24, in <module>
    from pandas._libs import (
  File "C:\ProgramData\anaconda3\Lib\site-packages\pyarrow\__init__.py", line 65, in <module>
    import pyarrow.lib as _lib
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AttributeError                            Traceback (most recent call last)
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    from pandas.core.api import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\api.py", line 28, in <module>
    from pandas.core.arrays import Categorical
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\arrays\__init__.py", line 1, in <module>
    from pandas.core.arrays.arrow import ArrowExtensionArray
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\arrays\arrow\__init__.py", line 5, in <m
odule>
    from pandas.core.arrays.arrow.array import ArrowExtensionArray
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\arrays\arrow\array.py", line 50, in <mod
ule>
    from pandas.core import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\ops\__init__.py", line 8, in <module>
    from pandas.core.ops.array_ops import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\ops\array_ops.py", line 56, in <module>
    from pandas.core.computation import expressions
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\computation\expressions.py", line 21, in
<module>
    from pandas.core.computation.check import NUMEXPR_INSTALLED
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\computation\check.py", line 5, in <modul
e>
    ne = import_optional_dependency("numexpr", errors="warn")
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\compat\_optional.py", line 135, in import_opt
ional_dependency
    module = importlib.import_module(name)
  File "C:\ProgramData\anaconda3\Lib\importlib\__init__.py", line 126, in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
  File "C:\ProgramData\anaconda3\Lib\site-packages\numexpr\__init__.py", line 24, in <module>
    from numexpr.interpreter import MAX_THREADS, use_vml, __BLOCK_SIZE1__
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    from pandas.core.arrays.masked import BaseMaskedArray
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\arrays\masked.py", line 60, in <module>
    from pandas.core import (
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\core\nanops.py", line 52, in <module>
    bn = import_optional_dependency("bottleneck", errors="warn")
  File "C:\Users\PURNANGSHU ROY\AppData\Roaming\Python\Python311\site-packages\pandas\compat\_optional.py", line 135, in import_opt
ional_dependency
    module = importlib.import_module(name)
  File "C:\ProgramData\anaconda3\Lib\importlib\__init__.py", line 126, in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
  File "C:\ProgramData\anaconda3\Lib\site-packages\bottleneck\__init__.py", line 7, in <module>
    from .move import (move_argmax, move_argmin, move_max, move_mean, move_median,
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
AttributeError: _ARRAY_API not found
```

```
Macroeconomic Data (India 2023-2024):
   Year  GDP Growth (%)  Inflation Rate (%)  Unemployment Rate (%)  \
0  2023             6.2                 5.8                    7.2
1  2024             6.4                 5.6                    6.8

   Exports (Billion USD)  Imports (Billion USD)
0                    700                    650
1                    750                    680
```

```
C:\ProgramData\anaconda3\Lib\site-packages\seaborn\_oldcore.py:1119: FutureWarning: use_inf_as_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.
  with pd.option_context('mode.use_inf_as_na', True):
C:\ProgramData\anaconda3\Lib\site-packages\seaborn\_oldcore.py:1119: FutureWarning: use_inf_as_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.
  with pd.option_context('mode.use_inf_as_na', True):
C:\ProgramData\anaconda3\Lib\site-packages\seaborn\_oldcore.py:1119: FutureWarning: use_inf_as_na option is deprecated and will be removed in a future version. Convert inf values to NaN before operating instead.
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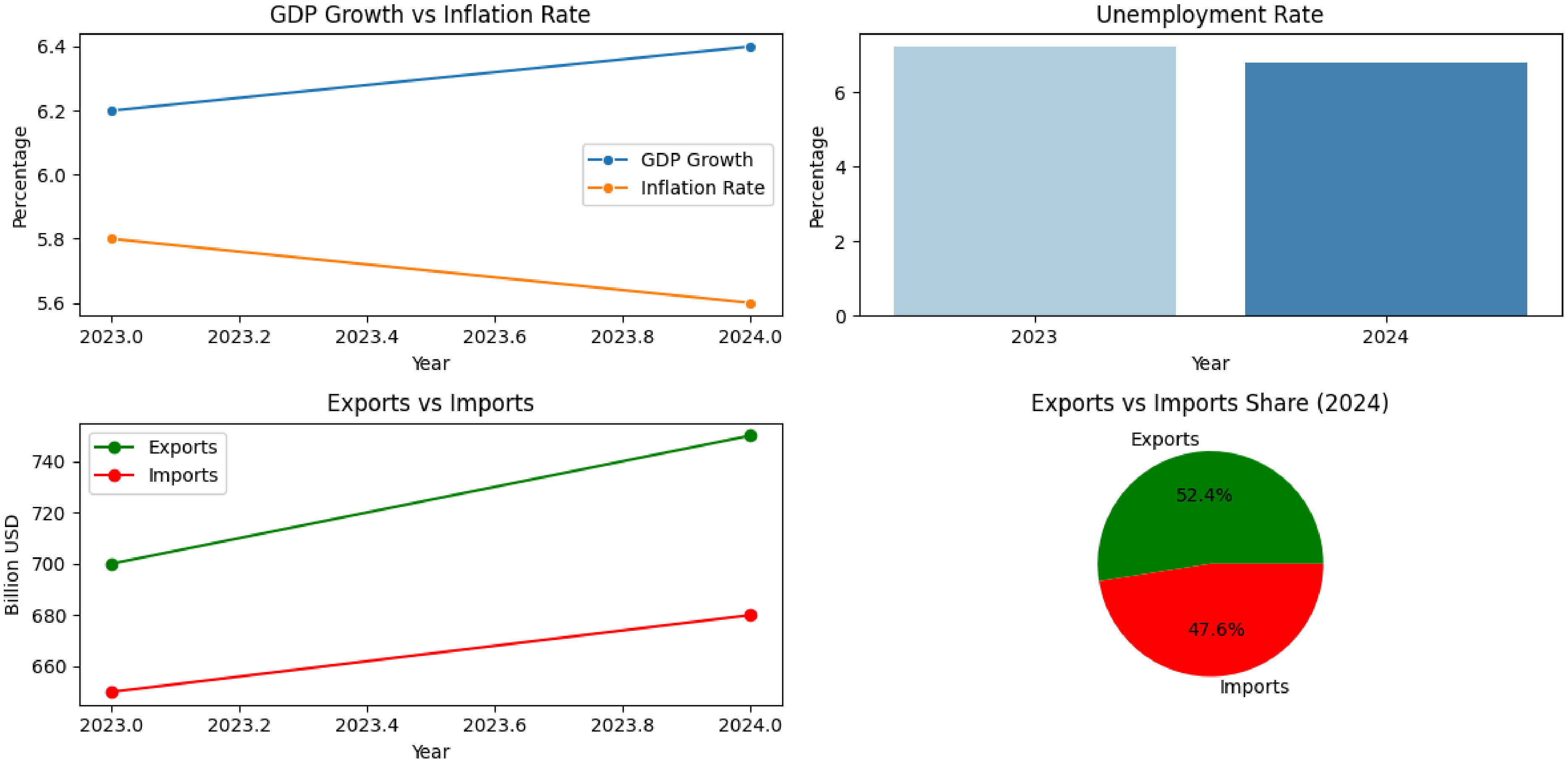
  with pd.option_context('mode.use_inf_as_na', True):
```



In [ ]: