```
In [1]: import pandas as pd
    df = pd.read_csv('BCG_dataset.csv')
        print("Year by Year Average Growth from 2023 to 2025")
    df
```

Year by Year Average Growth from 2023 to 2025

Out[1]:		Unnamed: 0	Company	Revenue Growth (%)	Net Income Growth (%)	Assets Growth (%)	Liabilities Growth (%)	Cash Flow from Operations Growth (%)
	0	0	Apple	0.30	2.12	-1.12	-0.57	1.33
	1	1	Microsoft	-6.66	-5.79	-10.33	-6.40	-8.15
	2	2	Tesla	-5.59	31.06	-11.81	-8.80	-0.03

```
In [2]: import pandas as pd
    df = pd.read_csv('Task1_data.csv')
    print("Annual data 2023 to 2025")
    df
```

Annual data 2023 to 2025

Out[2]:

	Company	Year	Total Revenue	Net Income	Total Assets	Total Liabilities	Cash Flow from Operating Expenses	Revenue Growth (%)	Net Income Growth (%)	Assets Growth (%)	Liabilities Growth (%)	Cash Flow from Operations Growth (%)
0	Microsoft	2024	245122	88136	512163	243686	118548	0.00	0.00	0.00	0.00	0.00
1	Microsoft	2023	211915	72361	411976	205753	87582	-13.55	-17.90	-19.56	-15.57	-26.12
2	Microsoft	2022	198270	72738	364840	198298	89035	-6.44	0.52	-11.44	-3.62	1.66
3	Tesla	2024	97690	7153	122070	48390	14923	0.00	0.00	0.00	0.00	0.00
4	Tesla	2023	96773	14974	106618	43009	13256	-0.94	109.34	-12.66	-11.12	-11.17
5	Tesla	2022	81462	12556	82338	36440	14724	-15.82	-16.15	-22.77	-15.27	11.07
6	Apple	2024	391035	93736	364980	308030	118254	0.00	0.00	0.00	0.00	0.00
7	Apple	2023	383285	96995	352583	290437	110543	-1.98	3.48	-3.40	-5.71	-6.52
8	Apple	2022	394328	99803	352755	302083	122151	2.88	2.89	0.05	4.01	10.50

In [*]: # Checking to see if the ChatBot is working in the Notebook
%run "C:/Users/noori/PycharmProjects/PythonProject/BCG/AI.py"

```
Hello! Welcome to AI Driven Financial Chatbot!!!
I can help you with your financial queries.
Available Companies: Apple, Microsoft, Tesla
Available Fiscal Years: 2022, 2023, 2024
Type 'exit' at any point to quit.
Enter company name: Tesla
Enter fiscal year (2022-2024): 2023
Available Oueries:
1. What is the total revenue?
2. What is the revenue growth (%) ?
3. What is the net income growth(%) ?
4. What is the assets growth(%) ?
5. What is the liabilities growth(%) ?
Enter your query: What is the liabilities growth(%) ?
The Liabilities Growth for Tesla in 2023 is -11.12%
Enter company name: Apple
Enter fiscal year (2022-2024): 2024
Available Queries:
1. What is the total revenue?
2. What is the revenue growth (%) ?
3. What is the net income growth(%) ?
4. What is the assets growth(%) ?
5. What is the liabilities growth(%) ?
Enter your query: What is the total revenue?
The Total Revenue for Apple in 2024 is $ 391035
Enter company name: Microsoft
Enter fiscal year (2022-2024): 2022
Available Queries:
1. What is the total revenue?
2. What is the revenue growth (%) ?
3. What is the net income growth(%) ?
4. What is the assets growth(%) ?
5. What is the liabilities growth(%) ?
Enter your query: What is the revenue growth (%) ?
The Revenue Growth for Microsoft in 2022 is -6.44%
Enter company name: Apple
Enter fiscal year (2022-2024): 2024
Available Queries:
1. What is the total revenue?
2. What is the revenue growth (%) ?
3. What is the net income growth(%) ?
4. What is the assets growth(%) ?
5. What is the liabilities growth(%) ?
Enter your query: What is the net income growth(%) ?
The Net Income Growth for Apple in 2024 is 0.0%
Enter company name: Tesla
Enter fiscal year (2022-2024): 2024
Available Queries:
1. What is the total revenue?
2. What is the revenue growth (%) ?
3. What is the net income growth(%) ?
4. What is the assets growth(%) ?
5. What is the liabilities growth(%) ?
Enter your query: What is the total revenue?
Sorry, I can only answer predefined financial queries.
```

```
Enter company name: Mircosoft
Enter fiscal year (2022-2024): 2021
Available Queries:
1. What is the total revenue?
2. What is the revenue growth (%) ?
3. What is the net income growth(%) ?
4. What is the assets growth(%) ?
5. What is the liabilities growth(%) ?
Enter your query: What is the total revenue?
No data available for Mircosoft in 2021.
Enter company name: Mircosoft
Enter fiscal year (2022-2024): 2025
Available Queries:
1. What is the total revenue?
2. What is the revenue growth (%) ?
3. What is the net income growth(%) ?
4. What is the assets growth(%) ?
5. What is the liabilities growth(%) ?
Enter your query: What is the liabilities growth(%) ?
No data available for Mircosoft in 2025.
Enter company name:
```

In []: # Strength: Do you easy go through the data
Weakness: Some change in the file and name can cause error and might not submit the result you wante