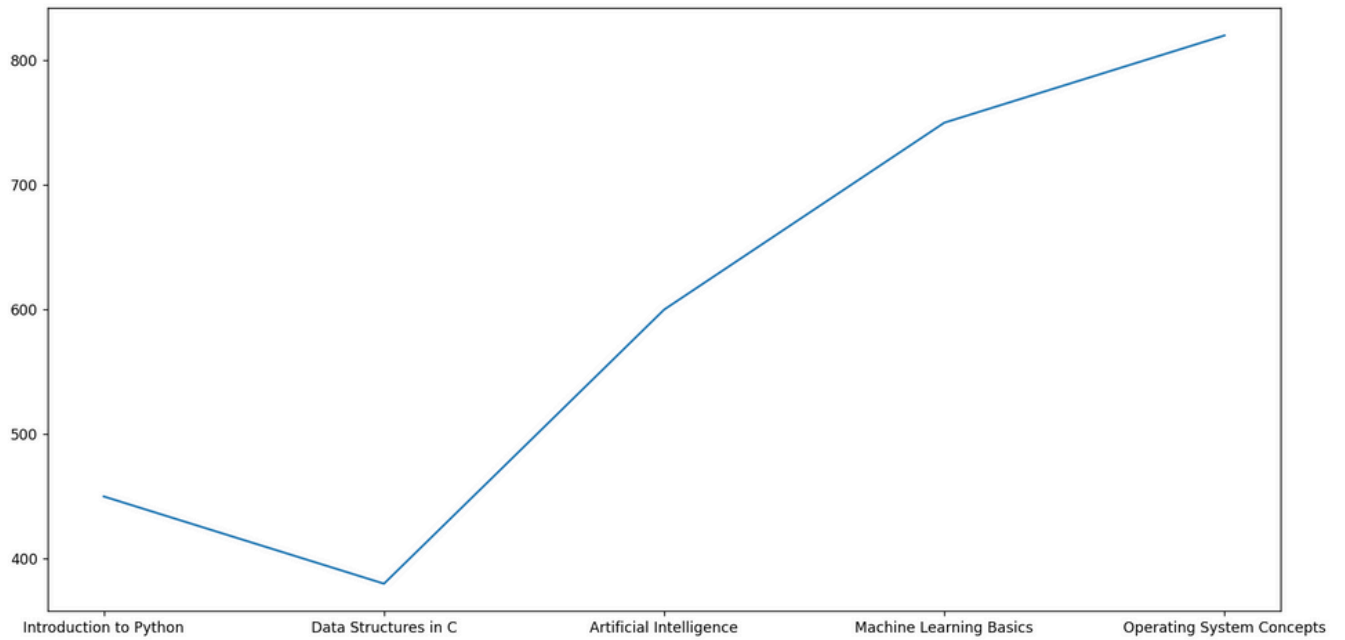
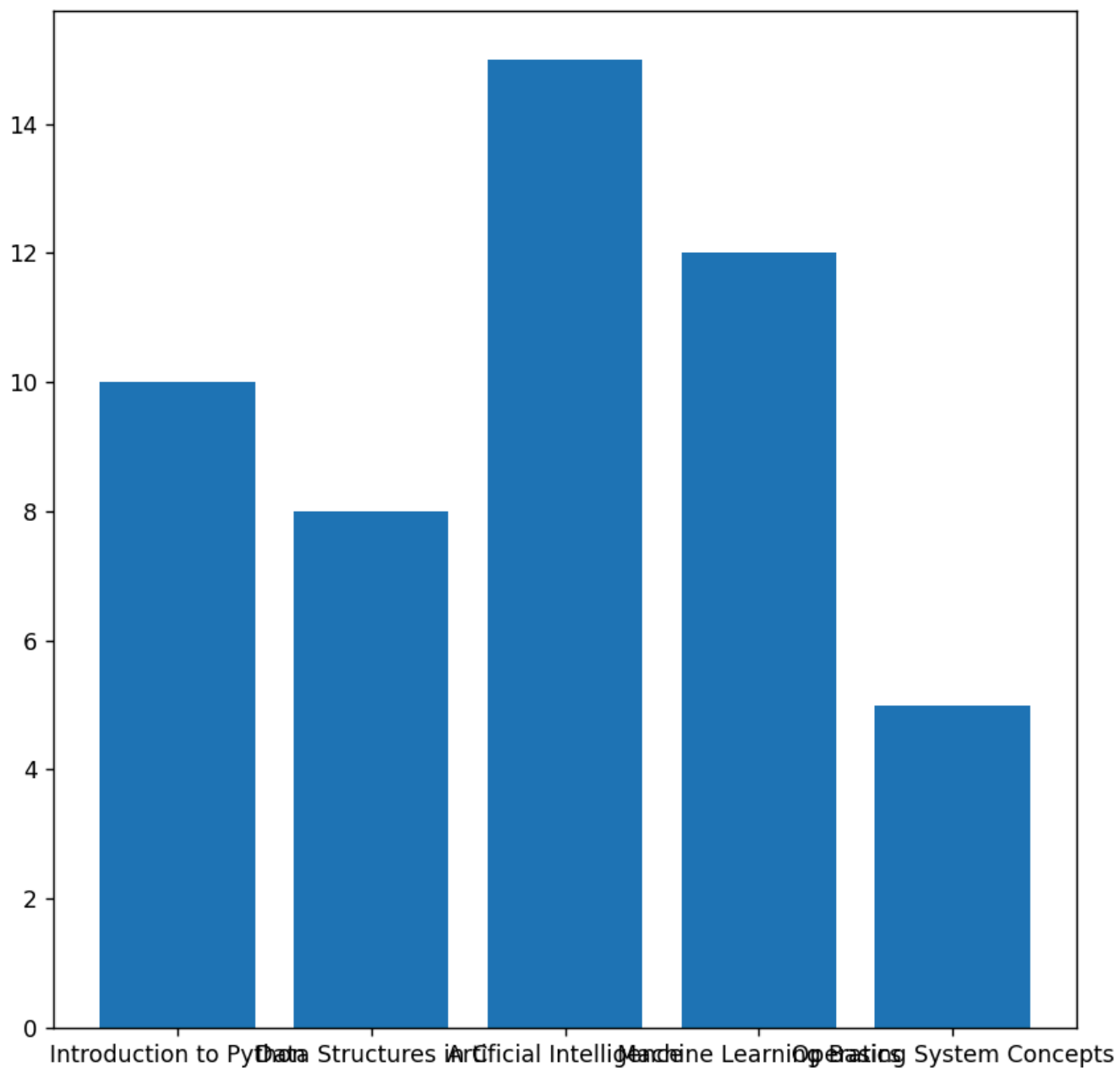


SUMMARY



first.py > ...

```
1  import mysql.connector
2  import pandas as pd
3  import matplotlib.pyplot as plt
4
5
6  conn = mysql.connector.connect(
7      host="localhost",
8      user="root",
9      password="Tanishka@333",
10     database="alms"
11 )
12
13 cursor = conn.cursor()
14
15
16 cursor.execute("SELECT * FROM book")
17
18 rows = cursor.fetchall()
19
20 lis=[]
21
22 for row in rows:
23     lis.append(row)
24
25 df=pd.DataFrame(lis,columns=["bid","book_title","Publisher","Qauntity","Price"])
26 df = df[df["bid"] <= 5]
27 plt.figure(figsize=(15, 15))
28 plt.plot(df['book_title'],df['Price'])
29 plt.show()
30 cursor.close()
31 conn.close()
32
```



```

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23     lis.append(row)
24
25 df=pd.DataFrame(lis,columns=["bid","book_title","Publisher","Qauntity","Price"])
26 df = df[df["bid"] <= 5]
27 plt.figure(figsize=(8, 8))
28 plt.bar(df['book_title'],df['Qauntity'])
29 plt.show()
30 cursor.close()
31 conn.close()

```

PS C:\Users\maahi\Downloads\mysql_data> & "C:/Program Files/Python313/python.exe" c:

	bid	book_title	Publisher	Qauntity	Price
0	1	Introduction to Python	Tata McGraw-Hill	10	450
1	2	Data Structures in C	BPB Publications	8	380
2	3	Artificial Intelligence	Pearson	15	600
3	4	Machine Learning Basics	O'Reilly Media	12	750
4	5	Operating System Concepts	Wiley India	5	820
5	6	Database Management Systems	McGraw-Hill	7	540

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25 df=pd.DataFrame(lis,columns=["bid","book_title","Publisher","Qauntity","Price"])
26 df =df[df["bid"] <= 5]
27 print(df)
28
29 cursor.close()
30 conn.close()
31

```

CONCLUSION

In this project, I successfully connected Python with MySQL to retrieve data directly from a database. I then converted the SQL table into a Pandas DataFrame, reducing it from 35 rows to a smaller, manageable subset for easier analysis. Using Matplotlib, I created two visualizations — a line graph and a column chart — to represent trends and distributions in the data. This process demonstrated how SQL, Python, and data visualization tools can work together to simplify analysis and present insights clearly.