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SID :- 2461075

Subjet :- **Machine Learning in Finance**

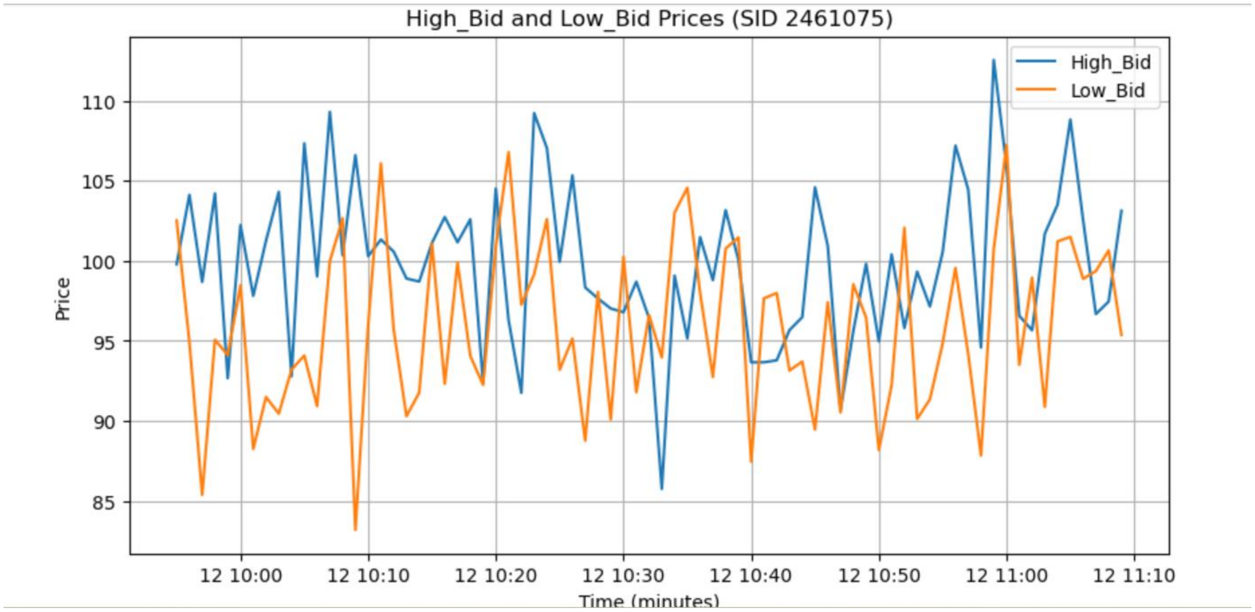
Week :- 6 Logbook

Code:-

```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt

np.random.seed(42)
dates = pd.date_range('2023-01-01', periods=70000, freq='1min')
df = pd.DataFrame({
    'High_Bid': np.random.normal(100, 5, 70000),
    'Low_Bid': np.random.normal(95, 5, 70000)
}, index=dates)

start_point = 61075
time_period = 75

subset = df.iloc[start_point : start_point + time_period]

plt.figure(figsize=(10,5))
plt.plot(subset.index, subset['High_Bid'], label='High_Bid')
plt.plot(subset.index, subset['Low_Bid'], label='Low_Bid')
plt.title('High_Bid and Low_Bid Prices (SID 2461075)')
plt.xlabel('Time (minutes)')
plt.ylabel('Price')
```

```
plt.ylabel('Price')
plt.legend()
plt.grid(True)
plt.show()
```

Output:-



High_Bid and Low_Bid Prices (SID 2461075)
High_Bid
Low_Bid
Price
110
105
100
95
90
85
12 10:00
12 10:10
12 10:20
12 10:30
12 10:40
12 10:50
12 11:00
12 11:10
Time (minutes)