

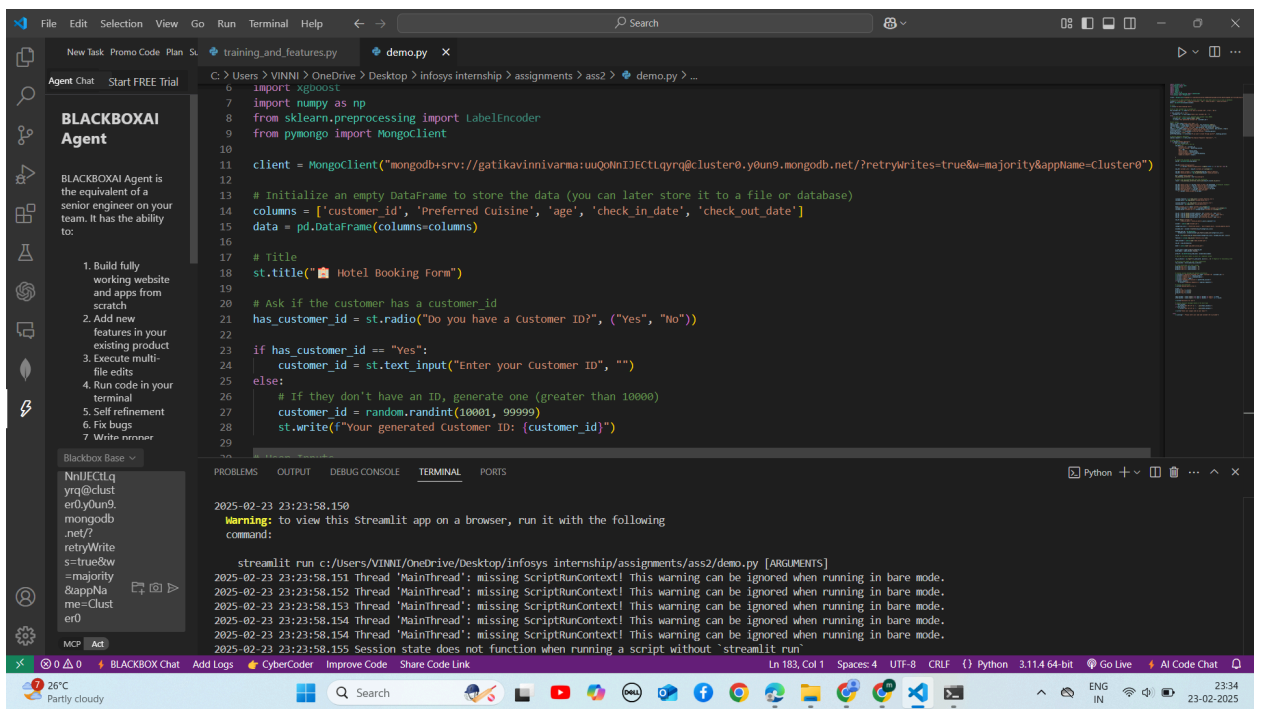
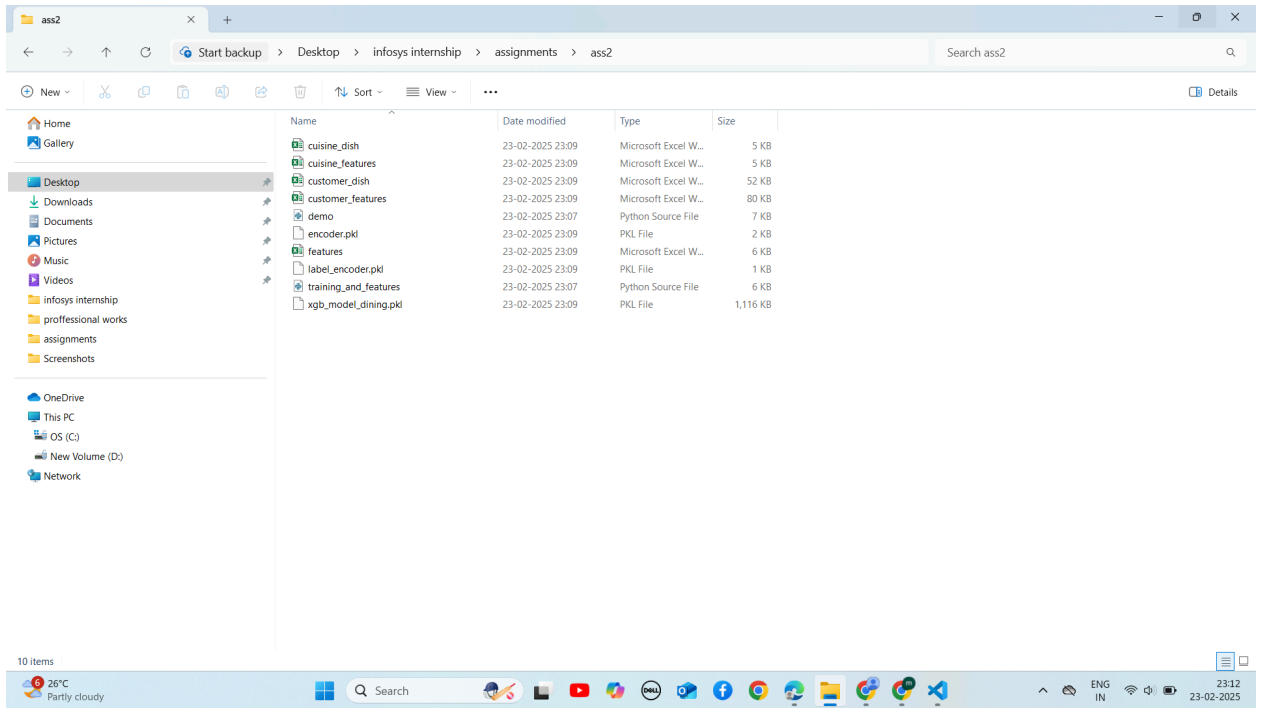
1. Setting up my own mongodb link and running training_and_features.py in vs code
2. following files are created in the folder
 - a. customer_features.xlsx
 - b. cuisine_features.xlsx
 - c. encoder.pkl
 - d. label_encoder.pkl
 - e. xgb_model_dining.pkl
 - f. features.xlsx
3. Run the demo.py
4. Bash code display - start UI
5. Hotel booking form UI

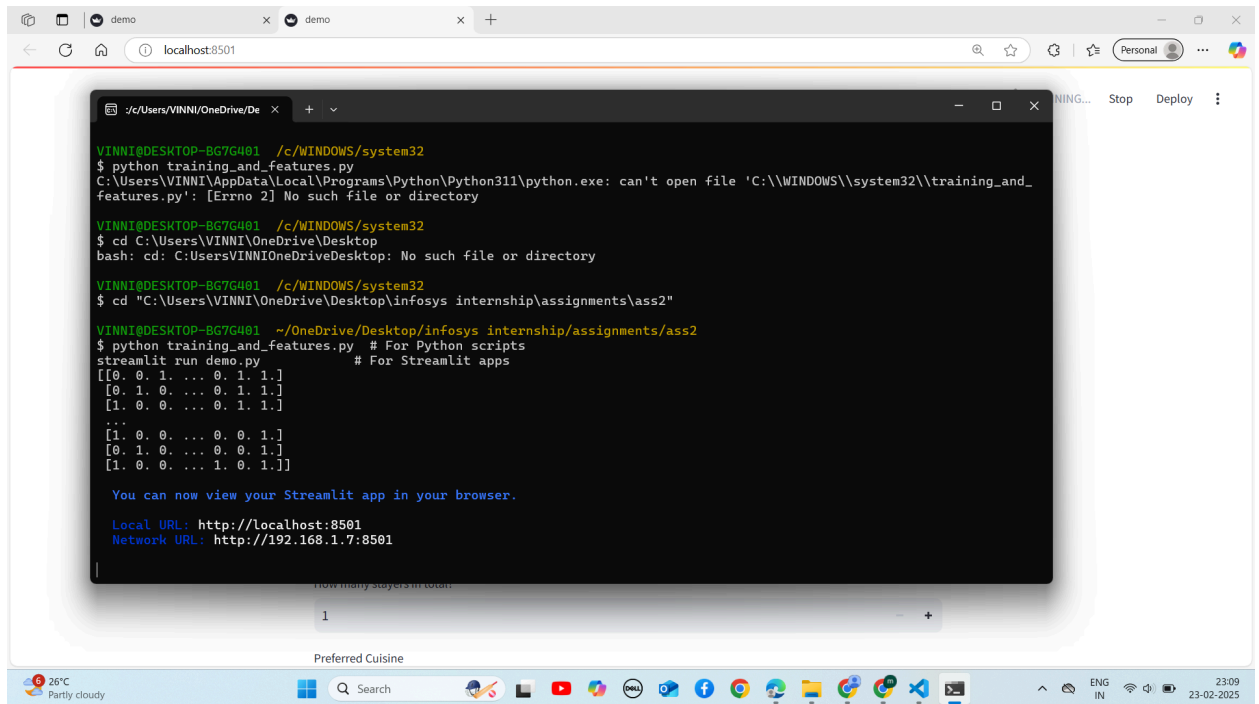
The screenshot shows a Visual Studio Code editor with a Python script named `training_and_features.py` open. The script connects to a MongoDB instance, retrieves data from the `hotel_guests` database, and processes it into a pandas DataFrame. It then calculates various time-based features like day of the week, month, and stay duration. The terminal window at the bottom shows the execution of the script, displaying a warning about `ScriptRunContext` and the resulting DataFrame output.

```
1 from pymongo import MongoClient
2 import pandas as pd
3 import xgboost as xgb
4
5 client = MongoClient("mongodb+srv://gatikavinnivarma:uuQ0nnIEctIqyrq@cluster0.y0un9.mongodb.net/?retryWrites=true&w=majority&appName=Cluster0")
6
7 db = client["hotel_guests"]
8
9 collection = db["dining_info"]
10
11 df_from_mongo = pd.DataFrame(list(collection.find()))
12
13 df = df_from_mongo.copy()
14
15 df['check_in_date'] = pd.to_datetime(df['check_in_date'])
16 df['check_out_date'] = pd.to_datetime(df['check_out_date'])
17 df['order_time'] = pd.to_datetime(df['order_time'])
18
19 df['check_in_day'] = df['check_in_date'].dt.dayofweek # Monday=0, Sunday=6
20 df['check_out_day'] = df['check_out_date'].dt.dayofweek
21 df['check_in_month'] = df['check_in_date'].dt.month
22 df['check_out_month'] = df['check_out_date'].dt.month
23 df['stay_duration'] = (df['check_out_date'] - df['check_in_date']).dt.days
24
```

Terminal Output:

```
2025-02-23 22:59:40.660 Thread 'MainThread': missing ScriptRunContext! This warning can be ignored when running in bare mode.
2025-02-23 22:59:40.660 Thread 'MainThread': missing ScriptRunContext! This warning can be ignored when running in bare mode.
PS C:\Users\VINNI> & C:\Users\VINNI\AppData\Local\Programs\Python\Python311\python.exe c:\Users\VINNI\OneDrive\desktop\training_and_features.py
[[0. 0. 1. ... 0. 1. 1.]
 [0. 1. 0. ... 0. 1. 1.]
 [1. 0. 0. ... 0. 1. 1.]
 ...
 [1. 0. 0. ... 0. 0. 1.]
 [0. 1. 0. ... 0. 0. 1.]
 [1. 0. 0. ... 1. 0. 1.]]
PS C:\Users\VINNI>
```






demo

localhost:8501

Deploy



Hotel Booking Form

Do you have a Customer ID?

☒ Yes
☐ No

Enter your Customer ID

91

Enter your name

Ior

Check-in Date

2025/02/23

Check-out Date

2025/02/23

Enter your age

18

How many stayers in total?

demo

localhost:8501

Deploy

Booking Confirmed

✓ Booking Confirmed for Ior (Customer ID: 91)!

Check-in: 2025-02-23

Check-out: 2025-02-23

Age: 18

Preferred Cuisine: South Indian

Special Requests: no

Booking Data so far:

Discounts for you!

Get 20% off on breakfast thali


Get 15% off on north indian thali, south indian thali

Check your coupon code on your email!

demo

localhost:8501

Deploy



Hotel Booking Form

Do you have a Customer ID?

☐ Yes

☒ No

Your generated Customer ID: 18145

Enter your name

rory

Check-in Date

2025/02/23

Check-out Date

2025/02/23

Enter your age

18

How many stayers in total?


2

demo

localhost:8501

Deploy

Submit Booking

 Booking Confirmed for rory (Customer ID: 18145)!

Check-in: 2025-02-23

Check-out: 2025-02-23

Age: 18

Preferred Cuisine: Multi

Special Requests: no

Booking Data so far:

Discounts for you!

Get 20% off on breakfast thali

Get 15% off on north indian thali, south indian thali

Check your coupon code on your email!