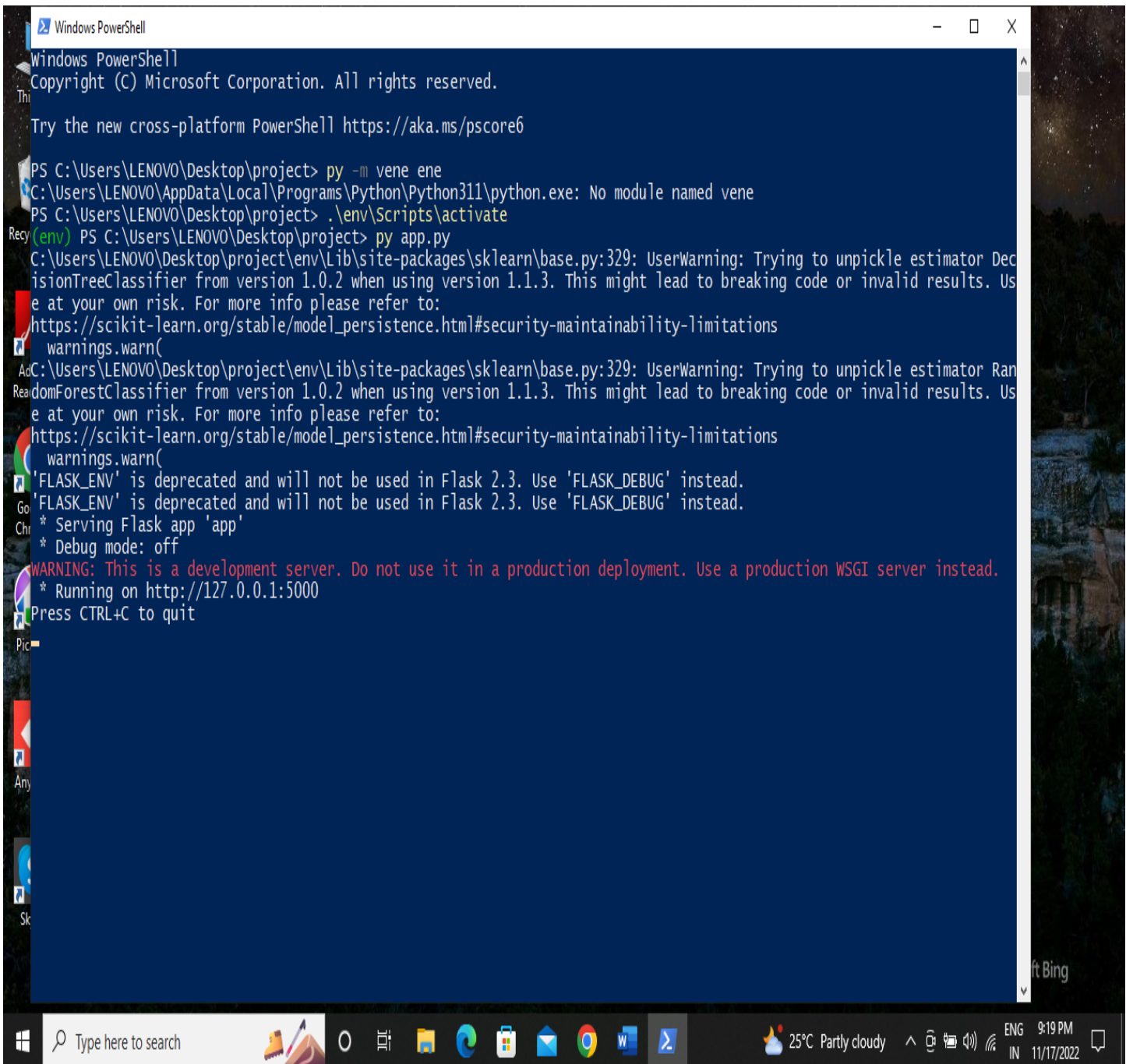


# DEVELOPING A FLIGHT DELAY PREDICTION USING MACHINE LEARNING

## Powershell Execution



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\LENOVO\Desktop\project> py -m venv .\env
C:\Users\LENOVO\AppData\Local\Programs\Python\Python311\python.exe: No module named venv
PS C:\Users\LENOVO\Desktop\project> .\env\Scripts\activate
(env) PS C:\Users\LENOVO\Desktop\project> py app.py
C:\Users\LENOVO\Desktop\project\env\Lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator DecisionTreeClassifier from version 1.0.2 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
C:\Users\LENOVO\Desktop\project\env\Lib\site-packages\sklearn\base.py:329: UserWarning: Trying to unpickle estimator RandomForestClassifier from version 1.0.2 when using version 1.1.3. This might lead to breaking code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
'FLASK_ENV' is deprecated and will not be used in Flask 2.3. Use 'FLASK_DEBUG' instead.
'FLASK_ENV' is deprecated and will not be used in Flask 2.3. Use 'FLASK_DEBUG' instead.
* Serving Flask app 'app'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
```

# PROJECT VIEW

ML API

127.0.0.1:5000

Gmail YouTube Maps 3D Pattern Program... WhatsApp Solve AVS STRING... Programming probl... (B9) - Google Drive Website Phishing D... IBM-EPBL/IBM-Proj...

## Flight Delay Prediction

Quarter of the year

ex:2

Month in number

ex:12

Day of the Month

ex:28

Day of the week

ex:7

Flight Number

ex:2523

Origin Airport:

ATL

Destination Airport:

ATL

Planned Departure Time(format hhmm)

ex:1723

Planned Arrival Time(format hhmm)

ex:2023

Estimated Traveling Time(in munites)

ex:180

Distance(in Kms)

ex:2000

Predict

Type here to search

25°C Partly cloudy

ENG IN 9:20 PM 11/17/2022

# PREDICTING THE VALUE

ML API

127.0.0.1:5000

Gmail YouTube Maps 3D Pattern Program... WhatsApp Solve AVS STRING... Programming probl... (B9) - Google Drive Website Phishing D... IBM-EPBL/IBM-Proj...

## Flight Delay Prediction

Quarter of the year

4

Month in number

12

Day of the Month

30

Day of the week

7

Flight Number

7800

Origin Airport:

DNT

Destination Airports:

ISP

Planned Departure Time(format hhmm)

1670

Planned Arrival Time(format hhmm)

4589

Estimated Traveling Time(in minutes)

365

Distance(in Kms)

1800

Predict

Type here to search

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IN 11/17/2022

# FINAL OUTPUT

ML API

127.0.0.1:5000/predict

Gmail YouTube Maps 30 Pattern Program... WhatsApp Solve AVS STRING... Programming probl... (B9) - Google Drive Website Phishing D... IBM-EPBL/IBM-Proj...

## Flight Delay Prediction

Quarter of the year  
ex:3

Month in number  
ex:12

Day of the Month  
ex:28

Day of the week  
ex:7

Flight Number  
ex:2521

Origin Airport: ATL ▼

Destination Airport: ATL ▼

Planned Departure Time(format hhmm)  
ex:1723

Planned Arrival Time(format hhmm)  
ex:2023

Estimated Traveling Time(in minutes)  
ex:180

Distance(in Kms)  
ex:2500

Predict

No delay will happen 0

Type here to search

25°C Partly cloudy ENG 9:22 PM 11/17/2022