

Delivery of Sprint-4

Date	14 November 2022
Team ID	PNT2022TMID04563
Project Name	Project – Crude oil price prediction

APPLICATION BUILDING

- **Creating HTML Files**

- ❖ Index.html (For Home Page)
- ❖ Web.html (For Prediction Page)

- **Build Python Code**

- ❖ Upon creating the two HTML files and building the Python Flask code, the app is run on the local browser.

- ❖ To run the app on the local browser the following code is used

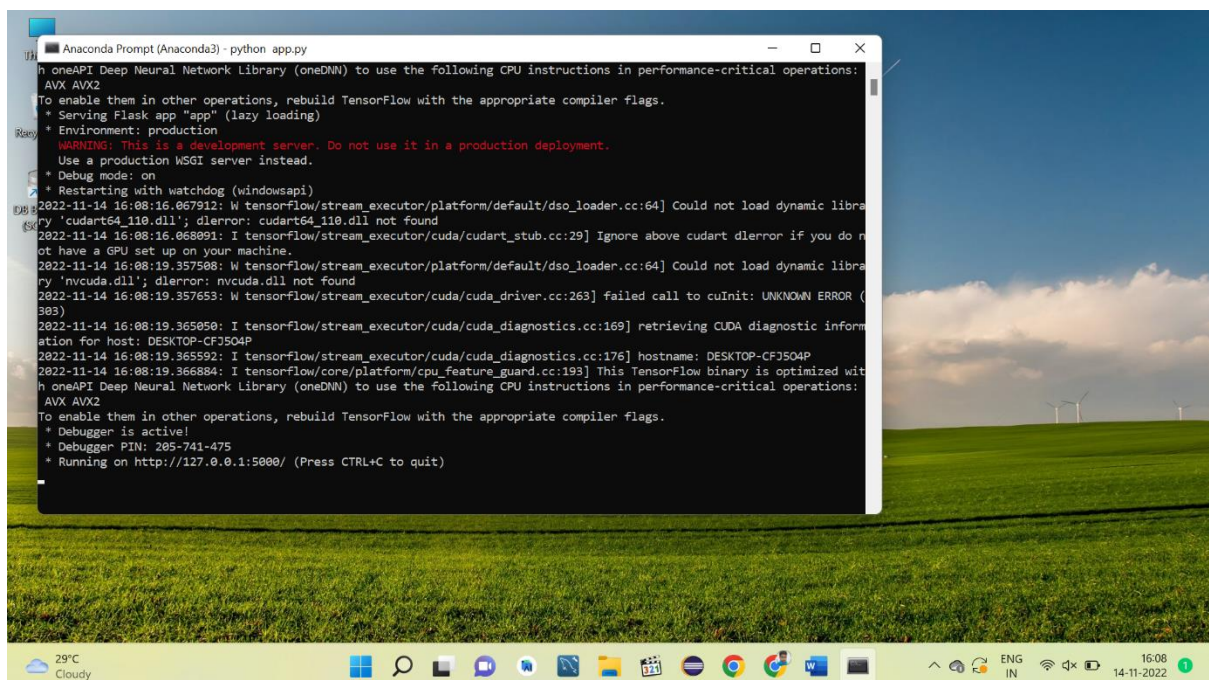
- set FLASK_APP=app.py
- set FLASK_ENV=development
- flask run

- ❖ The local server address is copied and pasted on a browser.

- **Run the app in local browser**

- ❖ The following outputs were obtained.

The local server address



```
Anaconda Prompt (Anaconda3) - python app.py
h oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations:
AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
* Serving Flask app "app" (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Restarting with Watchdog (windowsapi)
2022-11-14 16:08:16.867912: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library
'shared object: cudart64_110.dll'; dlderror: cudart64_110.dll not found
2022-11-14 16:08:16.868091: I tensorflow/stream_executor/cuda/cudart_stub.cc:29] Ignore above cudart dlerror if you do not
have a GPU set up on your machine.
2022-11-14 16:08:19.357508: W tensorflow/stream_executor/platform/default/dso_loader.cc:64] Could not load dynamic library
'nvcuda.dll'; dlderror: nvcuda.dll not found
2022-11-14 16:08:19.357653: W tensorflow/stream_executor/cuda/cuda_driver.cc:263] failed call to cuInit: UNKNOWN ERROR (3
03)
2022-11-14 16:08:19.365050: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:169] retrieving CUDA diagnostic inform
ation for host: DESKTOP-CFJ504P
2022-11-14 16:08:19.365592: I tensorflow/stream_executor/cuda/cuda_diagnostics.cc:176] hostname: DESKTOP-CFJ504P
2022-11-14 16:08:19.366884: I tensorflow/core/platform/cpu_feature_guard.cc:193] This TensorFlow binary is optimized wit
h oneAPI Deep Neural Network Library (oneDNN) to use the following CPU instructions in performance-critical operations:
AVX AVX2
To enable them in other operations, rebuild TensorFlow with the appropriate compiler flags.
* Debugger is active!
* Debugger PIN: 205-741-475
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Home Page

The screenshot shows a web browser window with the URL `127.0.0.1:5000`. The page has a dark background with a silhouette of an oil pumpjack against a sunset sky. The title "Crude Oil Price Prediction" is displayed in large white text. Below the title, a paragraph explains the inelastic demand for oil and its economic implications. A link "Predict Future Price" is visible. The browser's taskbar at the bottom shows the system clock as 16:10 on 14-11-2022 and a temperature of 29°C.

Crude Oil Price Prediction

Demand for oil is inelastic, therefore the rise in price is good news for producers because they will see an increase in their revenue. Oil importers, however, will experience increased costs of purchasing oil. Because oil is the largest traded commodity, the effects are quite significant. A rising oil price can even shift economic/political power from oil importers to oil exporters. The crude oil price movements are subject to diverse influencing factors.

[Predict Future Price](#)

Prediction Page

The screenshot shows the "predict" sub-page of the application, with the URL `127.0.0.1:5000/predict`. The background features a blue-toned oil price line chart. The page contains a text input field for "Enter the crude oil price for first 10 days" and a "Submit" button. The browser's taskbar at the bottom shows the system clock as 16:11 on 14-11-2022 and a temperature of 29°C.

Crude Oil Price Prediction

Enter the crude oil price for first 10 days

Submit

Prediction Out Page

Crude Oil Price Prediction

Enter the crude oil price for first 10 days

Submit

[1.3969322443008423]

Sprint-3 (1).pdf Sprint-3_removed.pdf Show all

29°C Cloudy

16:12 14-11-2022