

MILESTONE 5 :
DEPLOYMENT IN WEB
(FLASK) AND MOBILE
APP (KIVY)

CRUDE OIL WTI AND BRENT PRICE PREDICTION

MUHAMMAD AMIRUL BIN SAMSUL BAHAR
(17202062)

ZAIMIE AZMIN BIN ZAINUL ABIDIN
(17202336)

WQD7005 - DATA MINING
PROF. DR. TEH YING WAH



GITHUB : VIDEO, SLIDE & PROGRESS HERE :

[https://github.com/MYUMDATASCIENCE/
DATAMINING/](https://github.com/MYUMDATASCIENCE/DATAMINING/)

MILESTONE 5 :
DEPLOYMENT IN WEB
(FLASK) AND MOBILE
APP (KIVY)

CRUDE OIL
WTI AND
BRENT
PRICE
PREDICTION

MUHAMMAD AMIRUL BIN SAMSUL BAHAR
(17202062)

ZAIMIE AZMIN BIN ZAINUL ABIDIN
(17202336)

SUMMARY

**STEP 1 : Create all file needed for flask
flask_app.py, index.html, main2.css
and csv files.**

**STEP 2 : Import Flask module and
read/write csv to dataframe.**

**STEP 3 : Built the model (SVM & Linear
Regression Model) - as per milestone 4**

**STEP 4 : Predict using the model and
plot graph using matplotlib**

**STEP 5 : Upload all the files to python
hosting and run using url given.**

<http://wqd190018.pythonanywhere.com/>

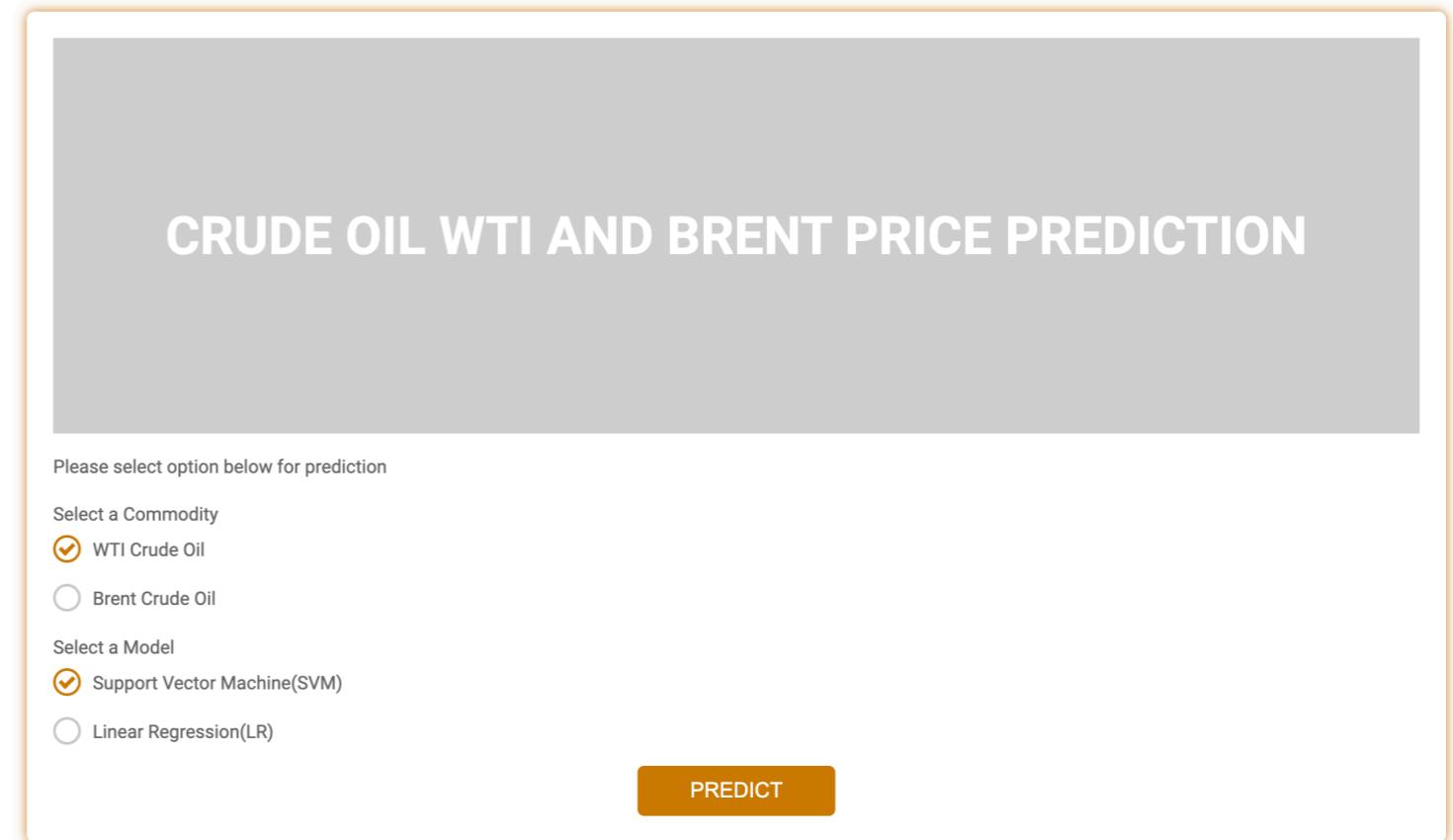
MILESTONE 5 : DEPLOYMENT IN WEB (FLASK) AND MOBILE APP (KIVY)

CRUDE OIL WTI AND BRENT PRICE PREDICTION

MUHAMMAD AMIRUL BIN SAMSUL BAHAR
(17202062)

ZAIMIE AZMIN BIN ZAINUL ABIDIN
(17202336)

Main Page :
<http://wqd190018.pythonanywhere.com/>



The screenshot shows a web application interface for crude oil price prediction. At the top, a large title "CRUDE OIL WTI AND BRENT PRICE PREDICTION" is displayed in white text on a grey background. Below the title, there is a message "Please select option below for prediction". Under this message, there are two sections: "Select a Commodity" and "Select a Model". In the "Select a Commodity" section, "WTI Crude Oil" is selected with a checked checkbox. In the "Select a Model" section, "Support Vector Machine(SVM)" is selected with a checked checkbox. At the bottom right of the form is a prominent orange "PREDICT" button.

1. Select a commodity WTI Crude Oil or Brent Crude Oil.
2. Select a model to do the prediction. Selece SVM or Linear Regression(LR)
3. Click PREDICT button

MILESTONE 5 : DEPLOYMENT IN WEB (FLASK) AND MOBILE APP (KIVY)

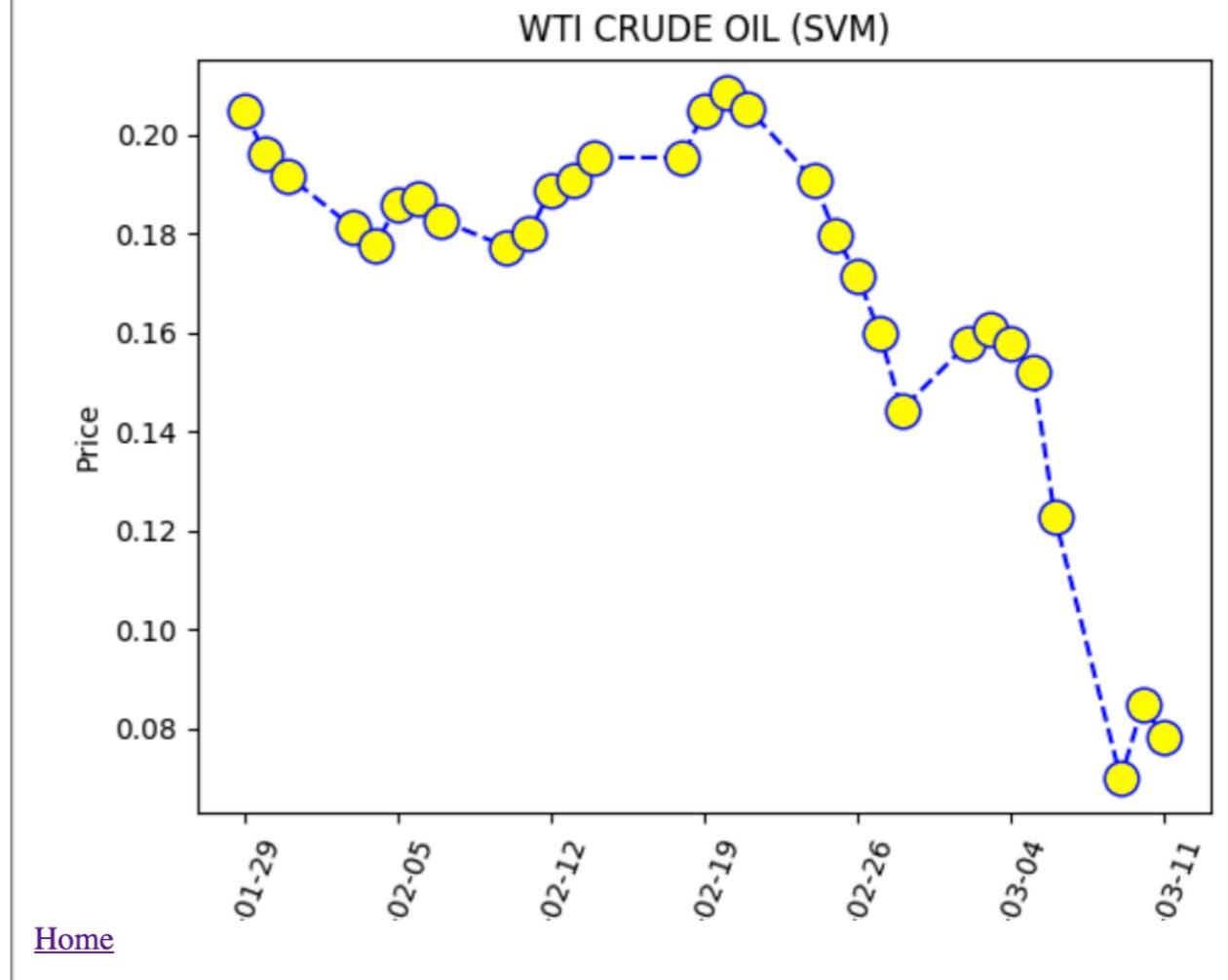
CRUDE OIL WTI AND BRENT PRICE PREDICTION

MUHAMMAD AMIRUL BIN SAMSUL BAHAR
(17202062)

ZAIMIE AZMIN BIN ZAINUL ABIDIN
(17202336)

WTI Crude Oil & SVM Model Selected

WTI CRUDE OIL (SVM PREDICTION)



1. Line graph shown predicted 30 days WTI Crude Oil price using SVM Model.
2. Click Home button to return to home screen.

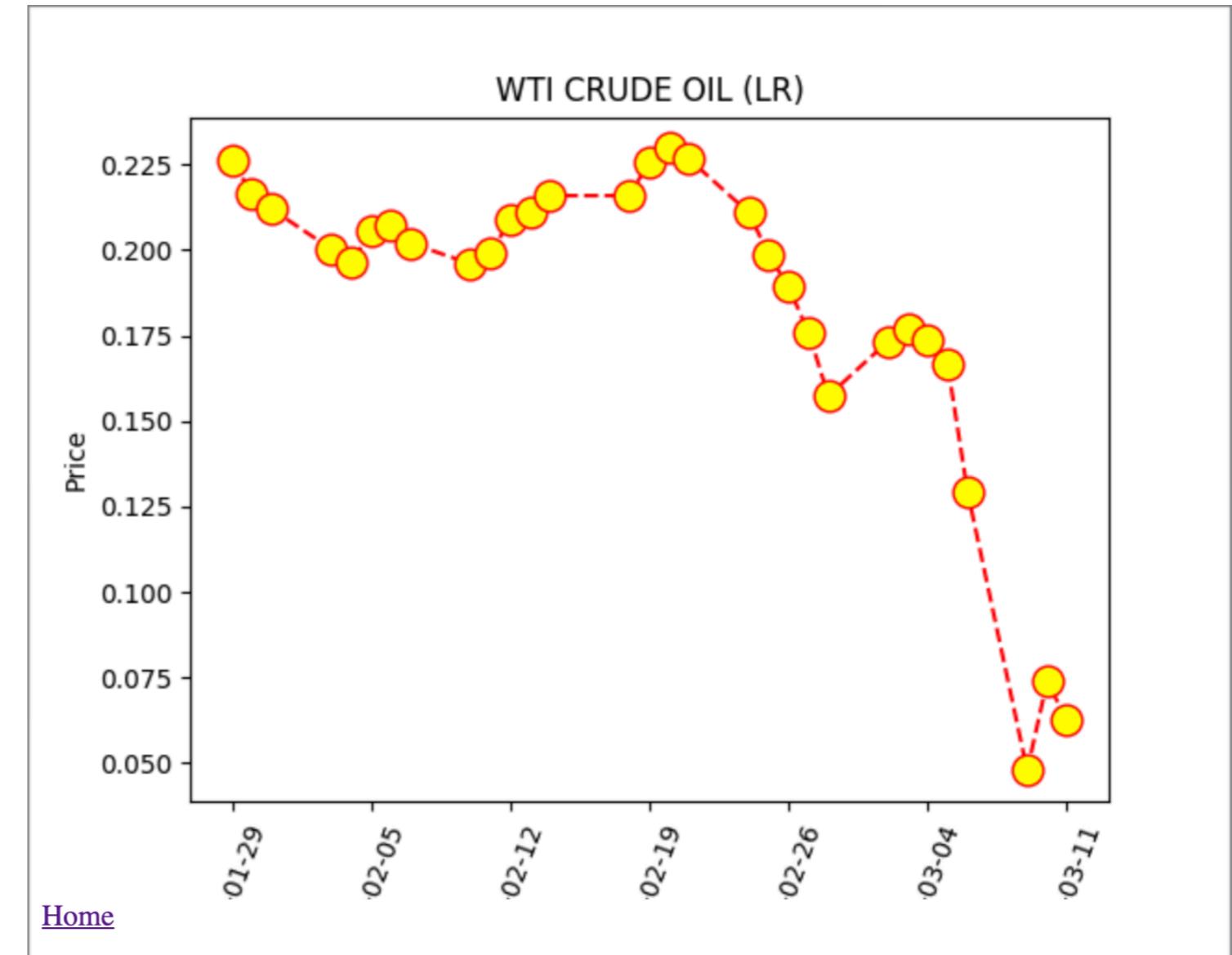
MILESTONE 5 : DEPLOYMENT IN WEB (FLASK) AND MOBILE APP (KIVY)

CRUDE OIL WTI AND BRENT PRICE PREDICTION

MUHAMMAD AMIRUL BIN SAMSUL BAHAR
(17202062)

ZAIMIE AZMIN BIN ZAINUL ABIDIN
(17202336)

WTI Crude Oil & LR Model Selected



1. Line graph shown predicted 30 days WTI Crude Oil price using LR Model.
2. Click Home button to return to home screen.

MILESTONE 5 : DEPLOYMENT IN WEB (FLASK) AND MOBILE APP (KIVY)

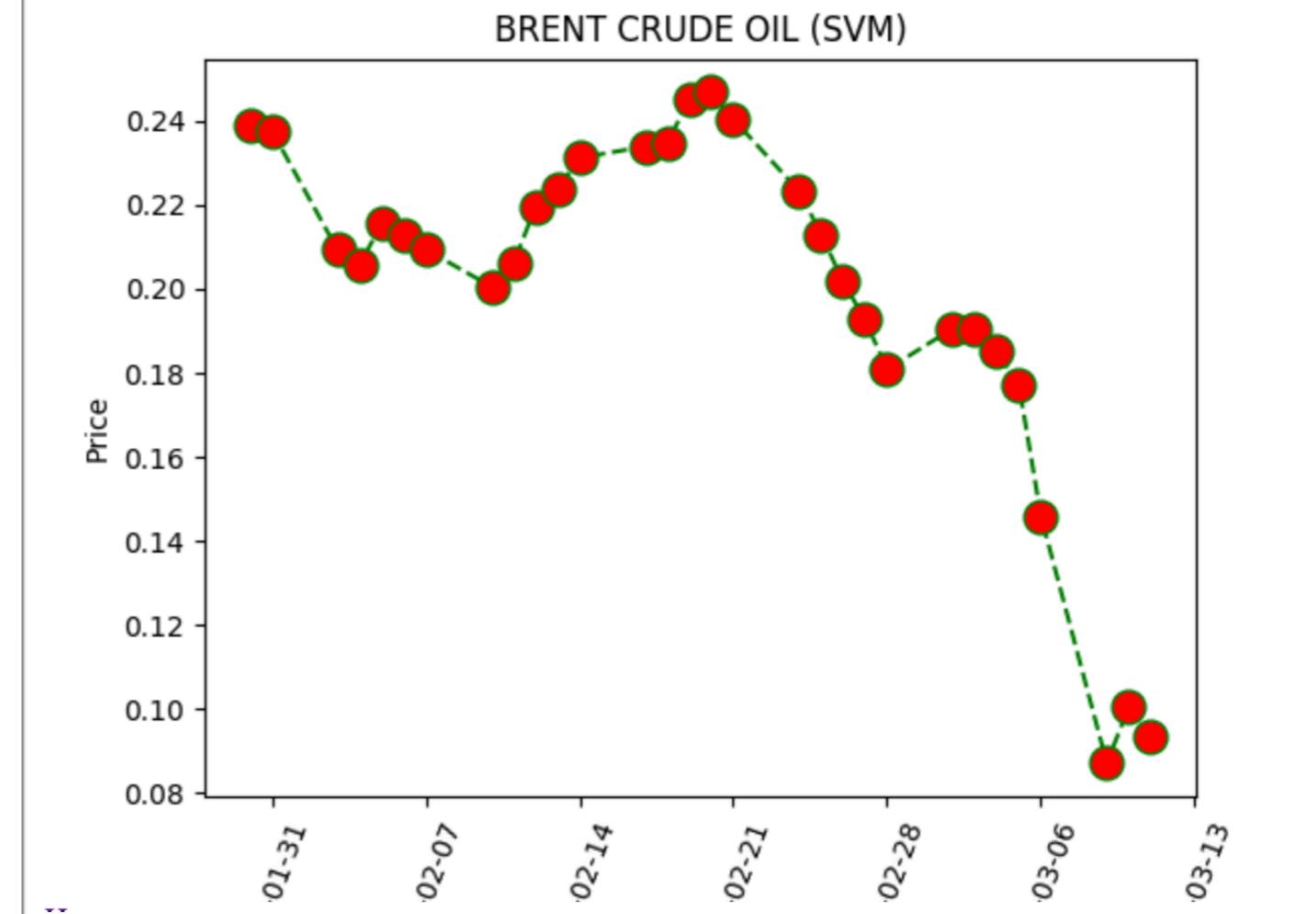
CRUDE OIL WTI AND BRENT PRICE PREDICTION

MUHAMMAD AMIRUL BIN SAMSUL BAHAR
(17202062)

ZAIMIE AZMIN BIN ZAINUL ABIDIN
(17202336)

BRENT Crude Oil & SVM Model Selected

BRENT CRUDE OIL (SVM PREDICTION)



1. Line graph shown predicted 30 days BRENT Crude Oil price using SVM Model.
2. Click Home button to return to home screen.

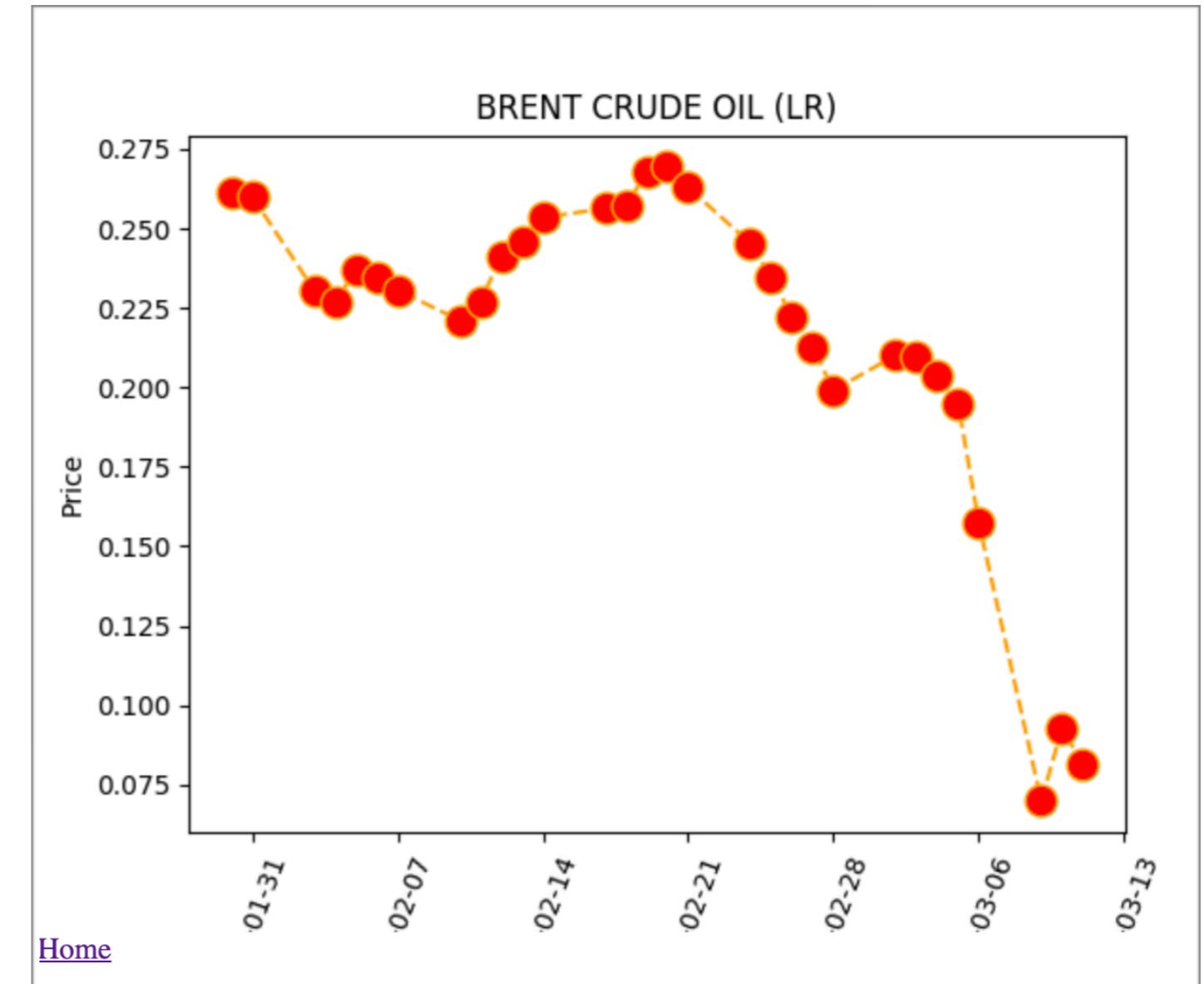
MILESTONE 5 :
DEPLOYMENT IN WEB
(FLASK) AND MOBILE
APP (KIVY)

CRUDE OIL WTI AND BRENT PRICE PREDICTION

MUHAMMAD AMIRUL BIN SAMSUL BAHAR
(17202062)

ZAIMIE AZMIN BIN ZAINUL ABIDIN
(17202336)

BRENT Crude Oil & LR Model Selected



1. Line graph shown predicted 30 days BRENT Crude Oil price using LR Model.
2. Click Home button to return to home screen.