

Project Development Phase Model Performance Test

Date	15 November 2022
Team ID	PNT2022TMID21644
Project Name	Project – Crude Oil Price Prediction
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	-	<pre> Model: "sequential" Layer (type) Output Shape Param # ----- lstm (LSTM) (None, 10, 50) 10400 lstm_1 (LSTM) (None, 10, 50) 20200 lstm_2 (LSTM) (None, 50) 20200 dense (Dense) (None, 1) 51 ----- Total params: 50,851 Trainable params: 50,851 Non-trainable params: 0 </pre>
2.	Accuracy	Training Accuracy – 96.3% Validation Accuracy – 90.6%	<pre> Epoch 8/10 480/480 [=====] - 33s 68ms/step - loss: 0.1362 - accuracy: 0.9580 - val_loss: 0.3744 - val_accuracy: 0.885 9 Epoch 9/10 480/480 [=====] - 34s 71ms/step - loss: 0.1344 - accuracy: 0.9585 - val_loss: 0.3191 - val_accuracy: 0.902 7 Epoch 10/10 480/480 [=====] - 33s 69ms/step - loss: 0.1201 - accuracy: 0.9633 - val_loss: 0.3093 - val_accuracy: 0.906 8 </pre>

1. Model Summary:

Model: "sequential"

Layer (type)	Output Shape	Param #
lstm (LSTM)	(None, 10, 50)	10400
lstm_1 (LSTM)	(None, 10, 50)	20200
lstm_2 (LSTM)	(None, 50)	20200
dense (Dense)	(None, 1)	51
===== Total params: 50,851 Trainable params: 50,851 Non-trainable params: 0		

2. Accuracy:

```

Epoch 8/10
480/480 [=====] - 33s 68ms/step - loss: 0.1362 - accuracy: 0.9580 - val_loss: 0.3744 - val_accuracy: 0.885
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Epoch 9/10
480/480 [=====] - 34s 71ms/step - loss: 0.1344 - accuracy: 0.9585 - val_loss: 0.3191 - val_accuracy: 0.902
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Epoch 10/10
480/480 [=====] - 33s 69ms/step - loss: 0.1201 - accuracy: 0.9633 - val_loss: 0.3093 - val_accuracy: 0.906
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