LAB Logbook

Week 8

Model: "sequential 1"

Layer (type)	Output Shape	Param #
lstm_1 (LSTM)	(None, 78)	30,264
dense_1 (Dense)	(None, 2)	158

Total params: 30,422 (118.84 KB)

Trainable params: 30,422 (118.84 KB)

Non-trainable params: 0 (0.00 B)

Training process

```
Epoch 1/10
1125/1126 -
                             - 0s 39ms/step - loss: 0.1466 - mae: 0.0923
Epoch 1: val_loss improved from inf to 0.00005, saving model to best_model_LSTM_Silver_3D_Tensor.keras
                             - 54s 44ms/step - loss: 0.1464 - mae: 0.0922 - val_loss: 5.1614e-05 - val_mae: 0.0048
Epoch 2/10
1126/1126 -
                            — 0s 45ms/step - loss: 5.7975e-05 - mae: 0.0055
Epoch 2: val_loss did not improve from 0.00005
                             - 55s 49ms/step - loss: 5.7975e-05 - mae: 0.0055 - val loss: 1.0117e-04 - val mae: 0.0086
1126/1126 -
1126/1126 -

    Os 46ms/step - loss: 6.9460e-05 - mae: 0.0062

Epoch 3: val_loss did not improve from 0.00005
1126/1126
                              - 57s 51ms/step - loss: 6.9464e-05 - mae: 0.0062 - val_loss: 5.5861e-05 - val_mae: 0.0058
Epoch 4/10
                              - 0s 47ms/step - loss: 7.6005e-05 - mae: 0.0066
1126/1126 -
Epoch 4: val_loss did not improve from 0.00005
                             - 57s 50ms/step - loss: 7.6011e-05 - mae: 0.0066 - val loss: 3.8352e-04 - val mae: 0.0183
1126/1126 -
Epoch 5/10
1125/1126 -
                          --- 0s 47ms/step - loss: 1.0047e-04 - mae: 0.0078
Epoch 5: val_loss did not improve from 0.00005
                              - 58s 51ms/step - loss: 1.0046e-04 - mae: 0.0078 - val_loss: 6.2190e-05 - val_mae: 0.0058
1126/1126 -
                             - 0s 38ms/step - loss: 9.1584e-05 - mae: 0.0073
1126/1126 -
Epoch 6: val_loss did not improve from 0.00005
                             - 49s 43ms/step - loss: 9.1578e-05 - mae: 0.0073 - val_loss: 1.1854e-04 - val_mae: 0.0088
1126/1126 -
Epoch 6: early stopping
```

MSE test: Mean Squared error (MSE): 0.000038794

MAE test: Mean Absolute error (MAE): 0.004282106

