DATA PREPROCESSING CREATING A DATASET WTH SLIDING WINDOWS

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Project Name	Crude Oil Price Prediction

Creating A Dataset With Sliding Windows

```
a = dataset[i:(i+time_step),0]
dataX.append(a)
                 dataY.append(dataset[i + time_step,0])
return np.array(dataX), np.array(dataY)
   In [19]: time_step = 10
             In [20]: print(X_train.shape), print(y_train.shape)
            (5329, 10)
            (5329,)
   Out[20]: (None, None)
   In [21]: print(X_test.shape), print(y_test.shape)
            (2865, 10)
            (2865,)
   Out[21]: (None, None)
   In [22]: X_train
Out[22]: array([[0.11335703, 0.11661484, 0.12053902, ..., 0.10980305, 0.1089886,
                  [0.11654346],
[0.11661484, 0.12053902, 0.11550422, ..., 0.1089886 , 0.11054346,
                  0.10165852],
[0.12053902, 0.11550422, 0.1156523 , ..., 0.11054346, 0.10165852,
                   0.09906708],
                  [0.36731823, 0.35176958, 0.36080261, ..., 0.36391234, 0.37042796,
                   0.37042796],
                  [0.35176958, 0.36080261, 0.35354657, ..., 0.37042796, 0.37042796, 0.37879461], [0.36080261, 0.35354657, 0.35295424, ..., 0.37042796, 0.37879461,
                   0.37916482]])
```