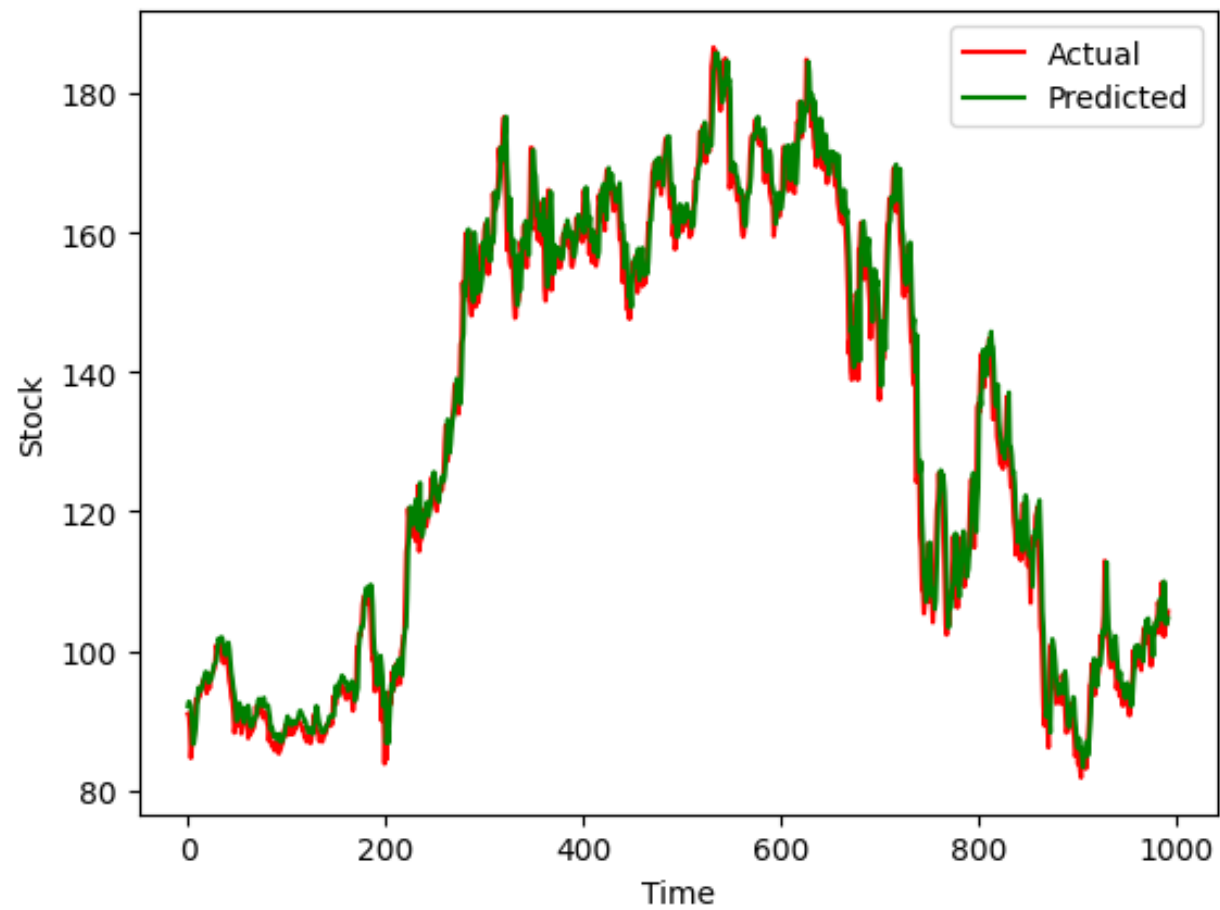# amazon
stock analysis

Analyzing the Closing Price

Closing Prices

Plot showing Actual & Predicted values

Forecasting Price Value for the next day

```python
#predictions:real time
def predict_real_time(data_amz,date,feature_length):
    if date not in data_amz.index:
        data_amz.loc[pd.Timestamp(date)] = 0
    idx=data_amz.index.get_loc(date)
    close_col=data_amz.iloc[:,4:5]
    close_col=close_col.iloc[idx - feature_length : idx, :].values
    close_col=np.expand_dims(scaler.transform(close_col),axis=0)
    prediction=model.predict(close_col)
    prediction=scaler.inverse_transform(prediction)
    return prediction

#today = datetime.today().strftime('%Y-%m-%d')
predict_real_time(data_amz,'2023-05-09',feature_length)
```

```
1/1 [==============================] - 0s 55ms/step
array([[106.523865]], dtype=float32)
```