

Multistock Time Series Prediction with LSTM

Upload a CSV file

Drag and drop file here
Limit 200MB per file • CSV

Browse files

 OMX.csv 1.6MB 

Dataset Preview

	INDEX Date	INDEX Price	ABB Date	ABB Price	Alfa laval AB Date	Alfa laval AB Price	Assa Abloy B D
0	1/2/2025	2,526.85	1/2/2025	593.6	1/2/2025	469.8	1/2/2025
1	12/30/2024	2,493.89	12/30/2024	595.4	12/30/2024	462.6	12/30/2024
2	12/27/2024	2,513.08	12/27/2024	604.6	12/27/2024	464.7	12/27/2024
3	12/23/2024	2,477.13	12/23/2024	604	12/23/2024	462	12/23/2024
4	12/20/2024	2,438.16	12/20/2024	603.6	12/20/2024	465.5	12/20/2024

Processing Stock: ABB Price

Train and test datasets prepared for ABB Price.

Training the Model for ABB Price

Epoch 1/20, Loss: 0.0063

Epoch 2/20, Loss: 0.0018

Epoch 3/20, Loss: 0.0002

Epoch 4/20, Loss: 0.0001

Epoch 5/20, Loss: 0.0001

Epoch 6/20, Loss: 0.0001

Epoch 7/20, Loss: 0.0001

Epoch 8/20, Loss: 0.0001

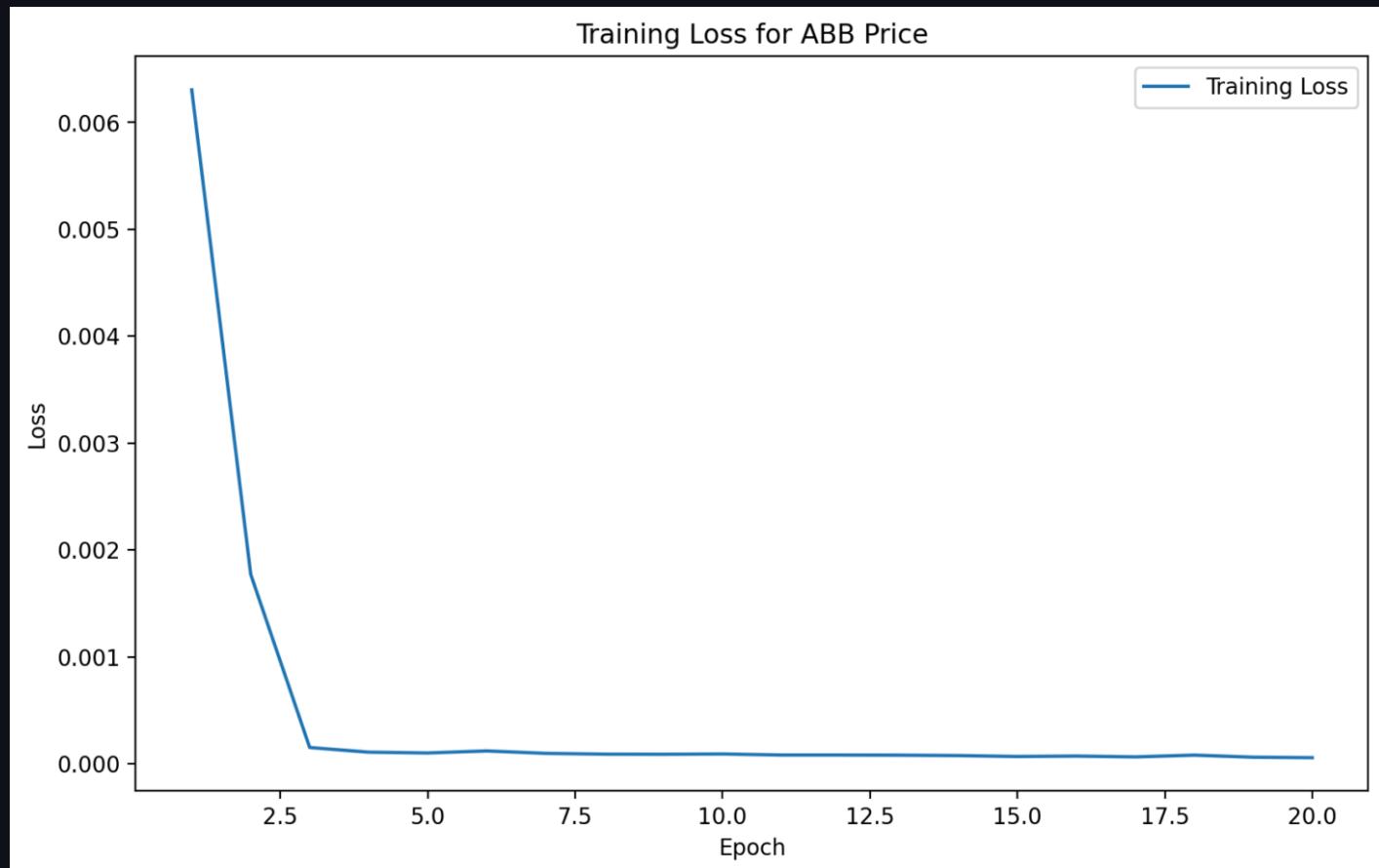
Epoch 9/20, Loss: 0.0001

Epoch 10/20, Loss: 0.0001

Epoch 11/20, Loss: 0.0001

Epoch 12/20, Loss: 0.0001

Epoch 13/20, Loss: 0.0001
Epoch 14/20, Loss: 0.0001
Epoch 15/20, Loss: 0.0001
Epoch 16/20, Loss: 0.0001
Epoch 17/20, Loss: 0.0001
Epoch 18/20, Loss: 0.0001
Epoch 19/20, Loss: 0.0001
Epoch 20/20, Loss: 0.0001



Testing the Model for ABB Price

Performance Metrics for ABB Price

Mean Squared Error (MSE): 114.7459

Mean Absolute Error (MAE): 8.0364

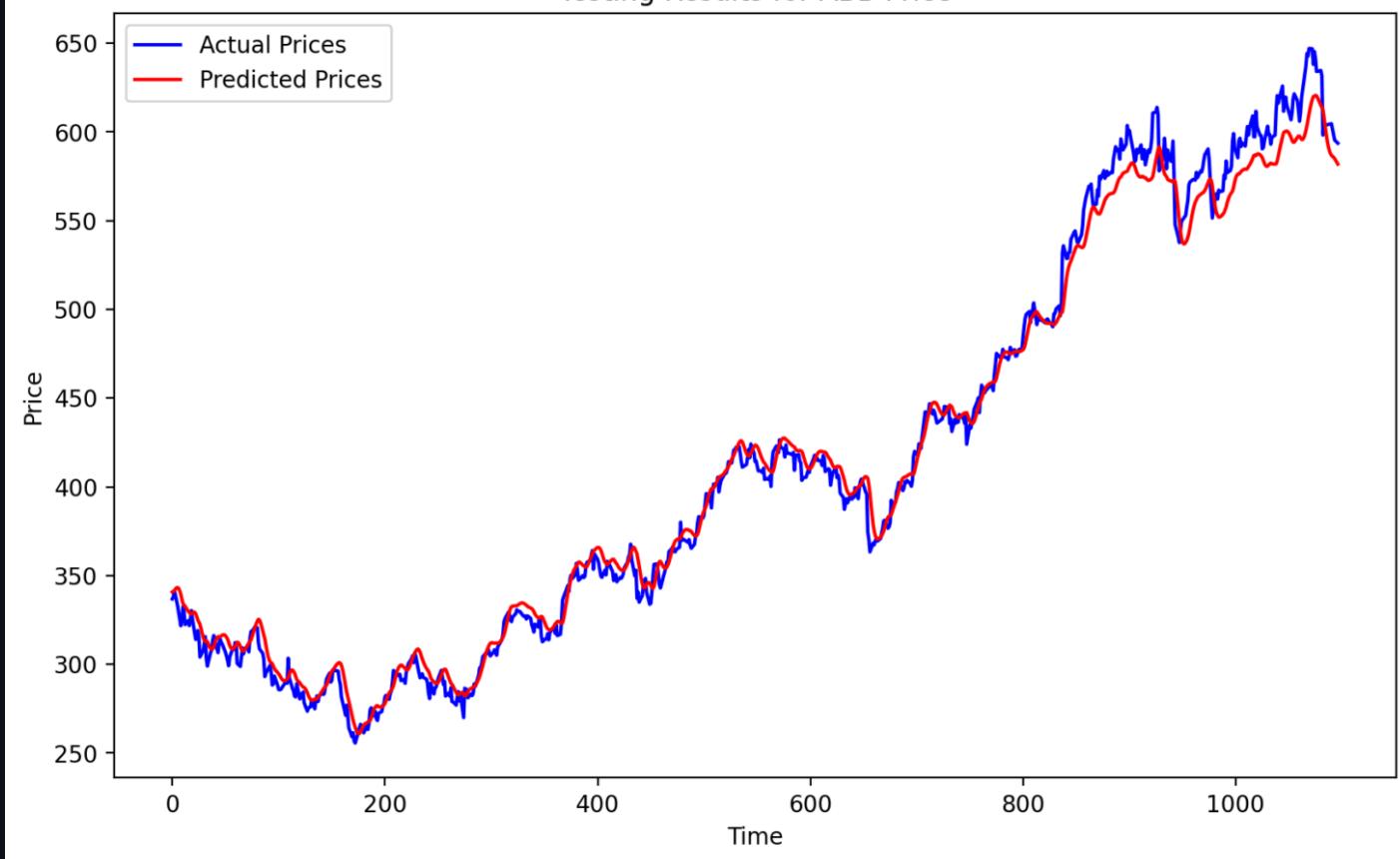
R-Squared (R²): 0.9910

Precision: 0.9472573839662447

Recall: 0.9782135076252724

F1 Score: 0.962486602357985

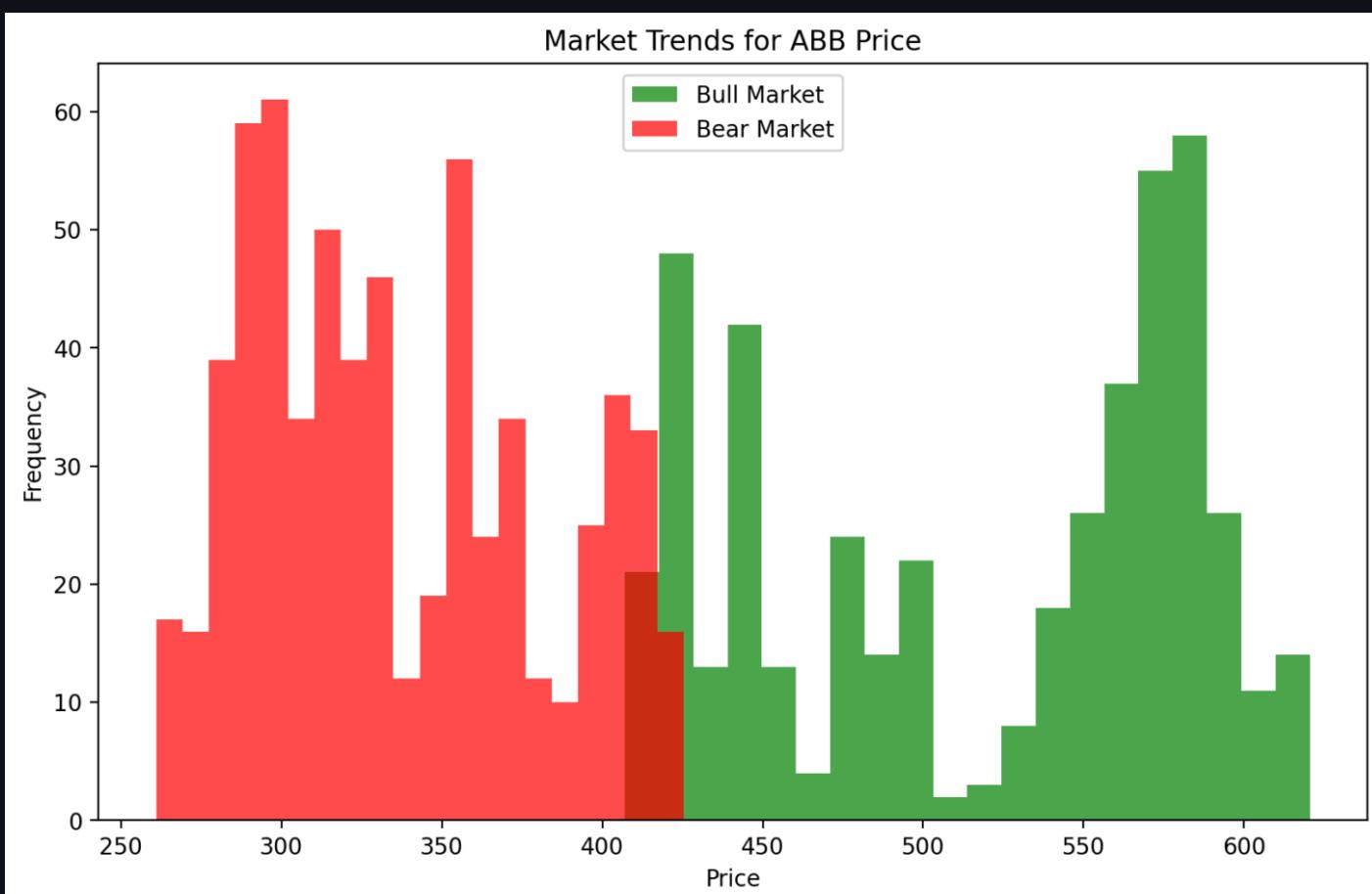
Testing Results for ABB Price



Market Trend Analysis for ABB Price

Bull Market Average Prediction: 518.6520

Bear Market Average Prediction: 336.1029



Processing Stock: Alfa laval AB Price

Train and test datasets prepared for Alfa laval AB Price.

Training the Model for Alfa laval AB Price

Epoch 1/20, Loss: 0.0192

Epoch 2/20, Loss: 0.0017

Epoch 3/20, Loss: 0.0004

Epoch 4/20, Loss: 0.0004

Epoch 5/20, Loss: 0.0003

Epoch 6/20, Loss: 0.0003

Epoch 7/20, Loss: 0.0003

Epoch 8/20, Loss: 0.0003

Epoch 9/20, Loss: 0.0003

Epoch 10/20, Loss: 0.0003

Epoch 11/20, Loss: 0.0003

Epoch 12/20, Loss: 0.0003

Epoch 13/20, Loss: 0.0002

Epoch 14/20, Loss: 0.0002

Epoch 15/20, Loss: 0.0002

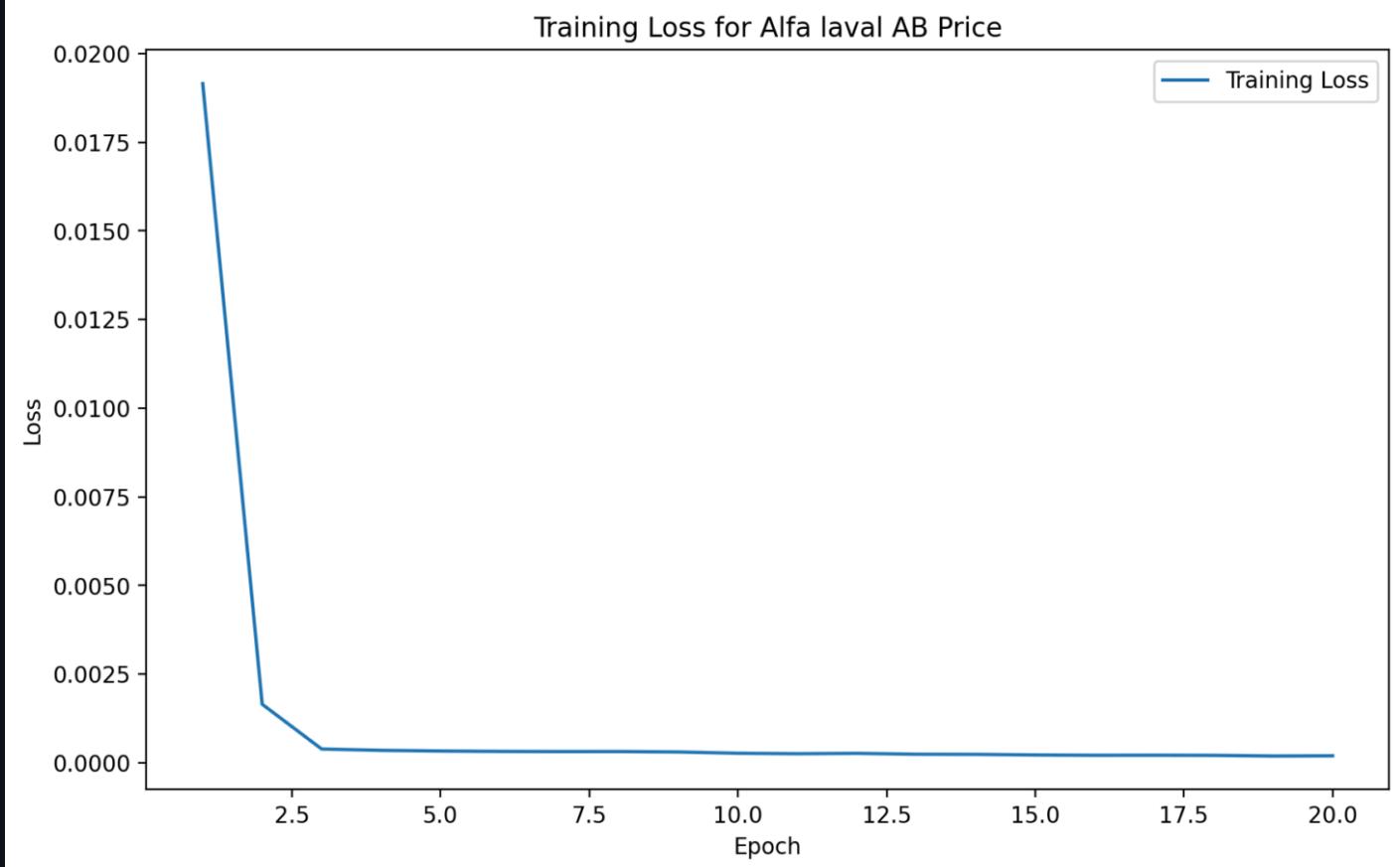
Epoch 16/20, Loss: 0.0002

Epoch 17/20, Loss: 0.0002

Epoch 18/20, Loss: 0.0002

Epoch 19/20, Loss: 0.0002

Epoch 20/20, Loss: 0.0002



Testing the Model for Alfa laval AB Price

Performance Metrics for Alfa laval AB Price

Mean Squared Error (MSE): 86.3856

Mean Absolute Error (MAE): 7.0972

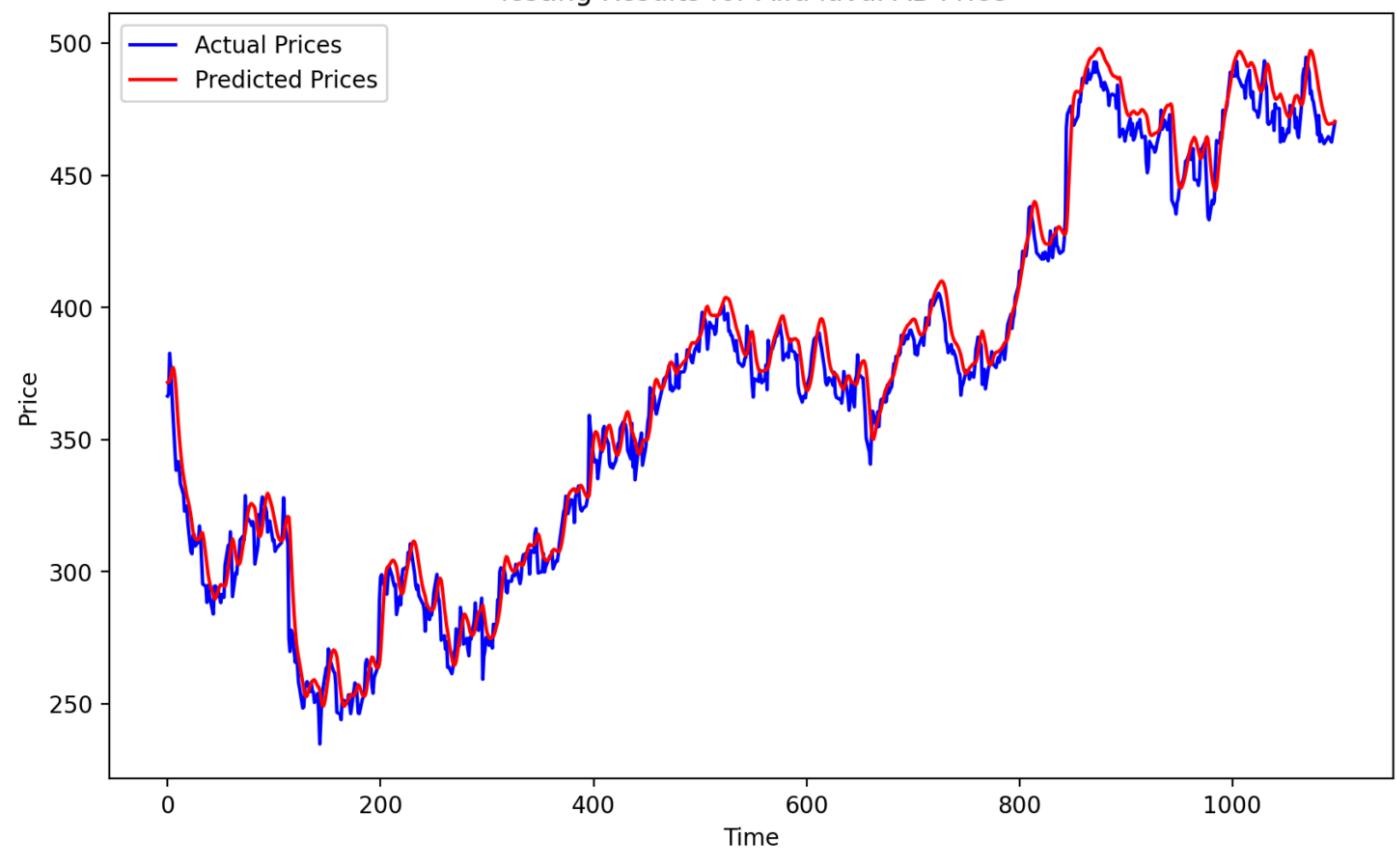
R-Squared (R2): 0.9827

Precision: 0.9218500797448166

Recall: 0.993127147766323

F1 Score: 0.9561621174524401

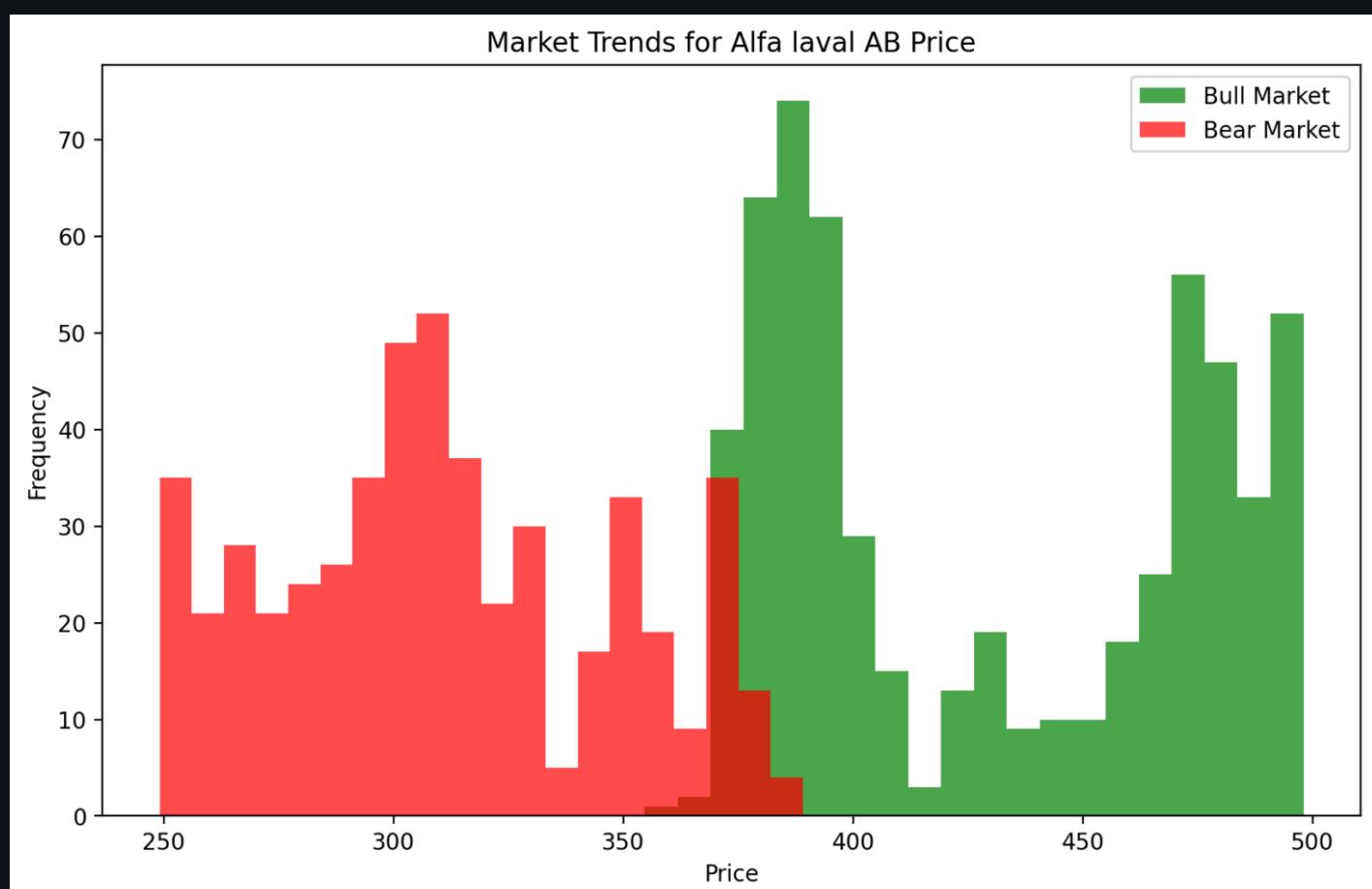
Testing Results for Alfa laval AB Price



Market Trend Analysis for Alfa laval AB Price

Bull Market Average Prediction: 429.0708

Bear Market Average Prediction: 311.0692



Processing Stock: Assa Abloy B Price

Train and test datasets prepared for Assa Abloy B Price.

Training the Model for Assa Abloy B Price

Epoch 1/20, Loss: 0.0256

Epoch 2/20, Loss: 0.0055

Epoch 3/20, Loss: 0.0011

Epoch 4/20, Loss: 0.0008

Epoch 5/20, Loss: 0.0007

Epoch 6/20, Loss: 0.0006

Epoch 7/20, Loss: 0.0006

Epoch 8/20, Loss: 0.0006

Epoch 9/20, Loss: 0.0005

Epoch 10/20, Loss: 0.0005

Epoch 11/20, Loss: 0.0005

Epoch 12/20, Loss: 0.0005

Epoch 13/20, Loss: 0.0004

Epoch 14/20, Loss: 0.0004

Epoch 15/20, Loss: 0.0004

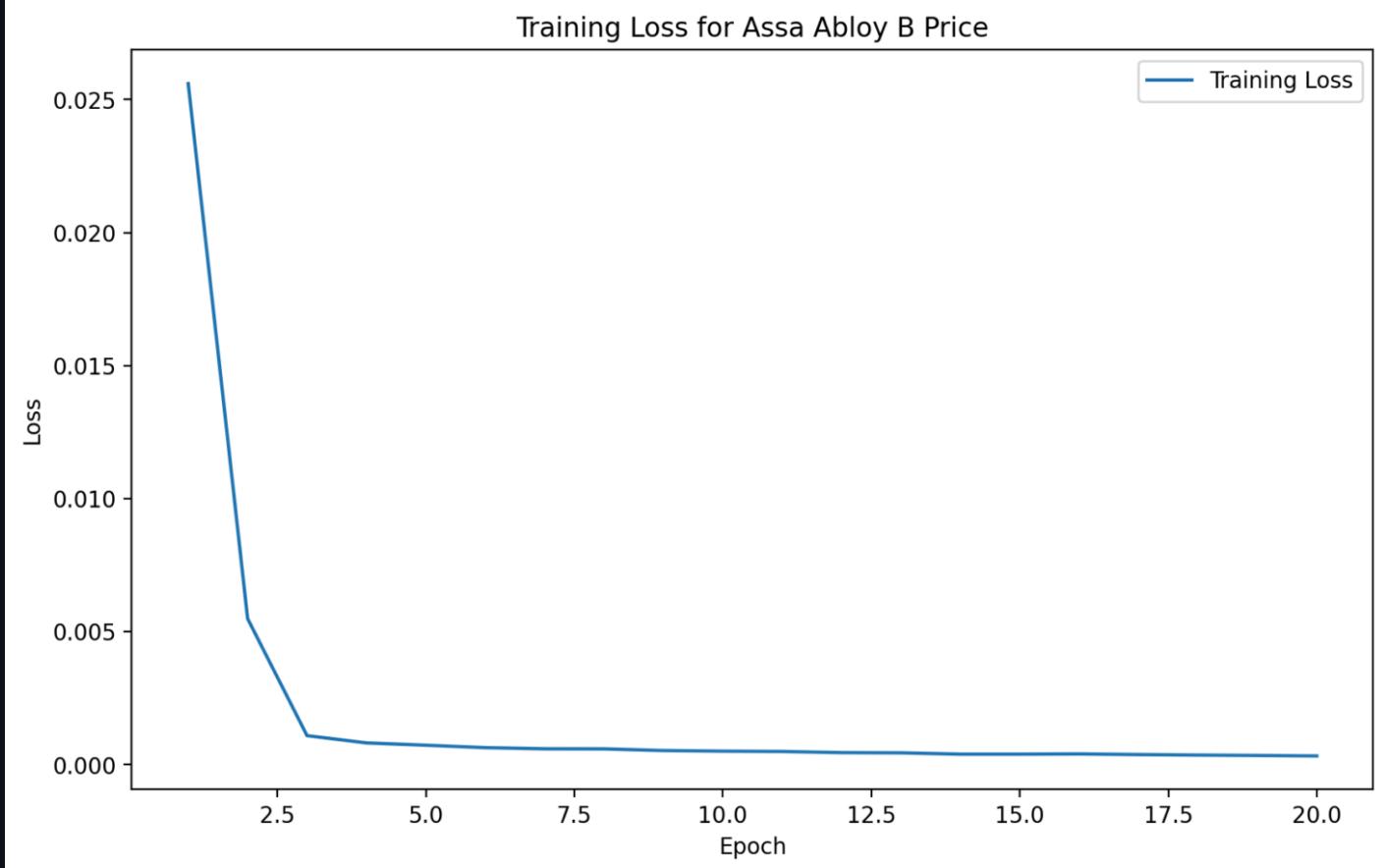
Epoch 16/20, Loss: 0.0004

Epoch 17/20, Loss: 0.0004

Epoch 18/20, Loss: 0.0004

Epoch 19/20, Loss: 0.0003

Epoch 20/20, Loss: 0.0003



Testing the Model for Assa Abloy B Price

Performance Metrics for Assa Abloy B Price

Mean Squared Error (MSE): 30.0538

Mean Absolute Error (MAE): 4.3357

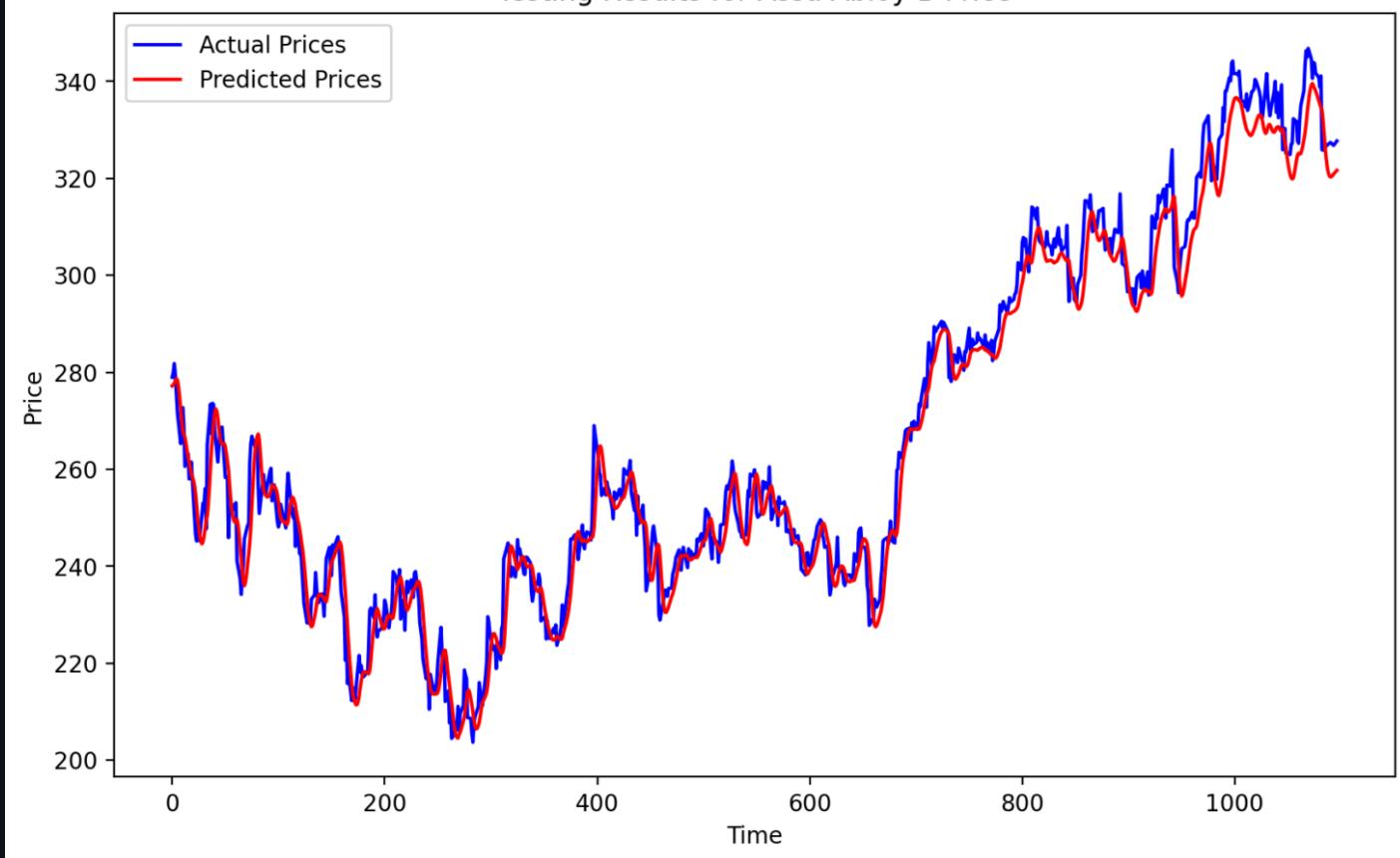
R-Squared (R²): 0.9781

Precision: 0.9811764705882353

Recall: 0.9697674418604652

F1 Score: 0.9754385964912281

Testing Results for Assa Abloy B Price



Market Trend Analysis for Assa Abloy B Price

Bull Market Average Prediction: 303.6703

Bear Market Average Prediction: 239.9470



Processing Stock: AstraZeneca Price

Train and test datasets prepared for AstraZeneca Price.

Training the Model for AstraZeneca Price

Epoch 1/20, Loss: 0.0186

Epoch 2/20, Loss: 0.0020

Epoch 3/20, Loss: 0.0003

Epoch 4/20, Loss: 0.0003

Epoch 5/20, Loss: 0.0002

Epoch 6/20, Loss: 0.0002

Epoch 7/20, Loss: 0.0002

Epoch 8/20, Loss: 0.0002

Epoch 9/20, Loss: 0.0002

Epoch 10/20, Loss: 0.0002

Epoch 11/20, Loss: 0.0002

Epoch 12/20, Loss: 0.0002

Epoch 13/20, Loss: 0.0002

Epoch 14/20, Loss: 0.0002

Epoch 15/20, Loss: 0.0002

Epoch 16/20, Loss: 0.0002

Epoch 17/20, Loss: 0.0002

Epoch 18/20, Loss: 0.0002

Epoch 19/20, Loss: 0.0002

Epoch 20/20, Loss: 0.0002



Testing the Model for AstraZeneca Price

Performance Metrics for AstraZeneca Price

Mean Squared Error (MSE): 1026.8457

Mean Absolute Error (MAE): 24.6939

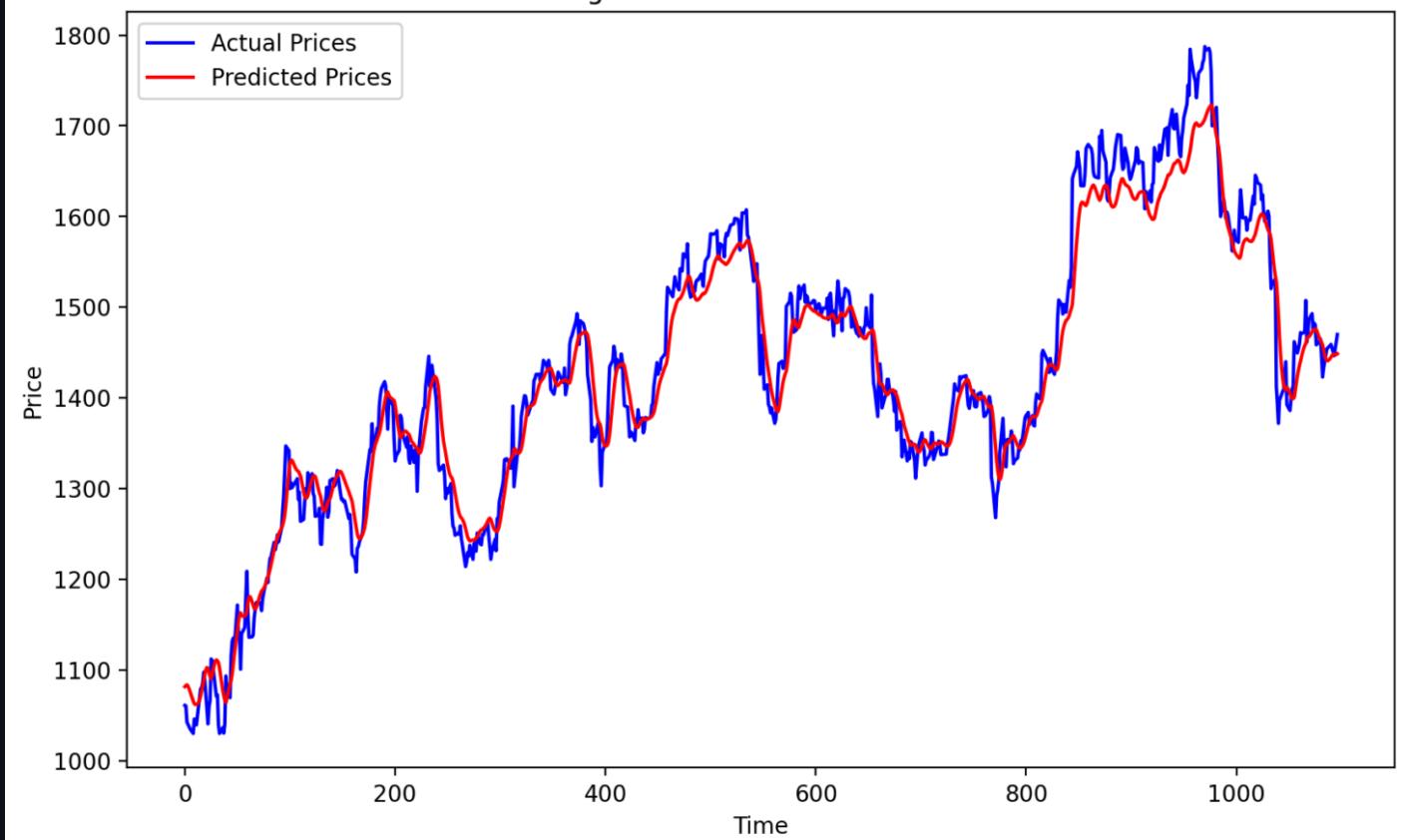
R-Squared (R2): 0.9585

Precision: 0.9452332657200812

Recall: 0.9083820662768031

F1 Score: 0.9264413518886679

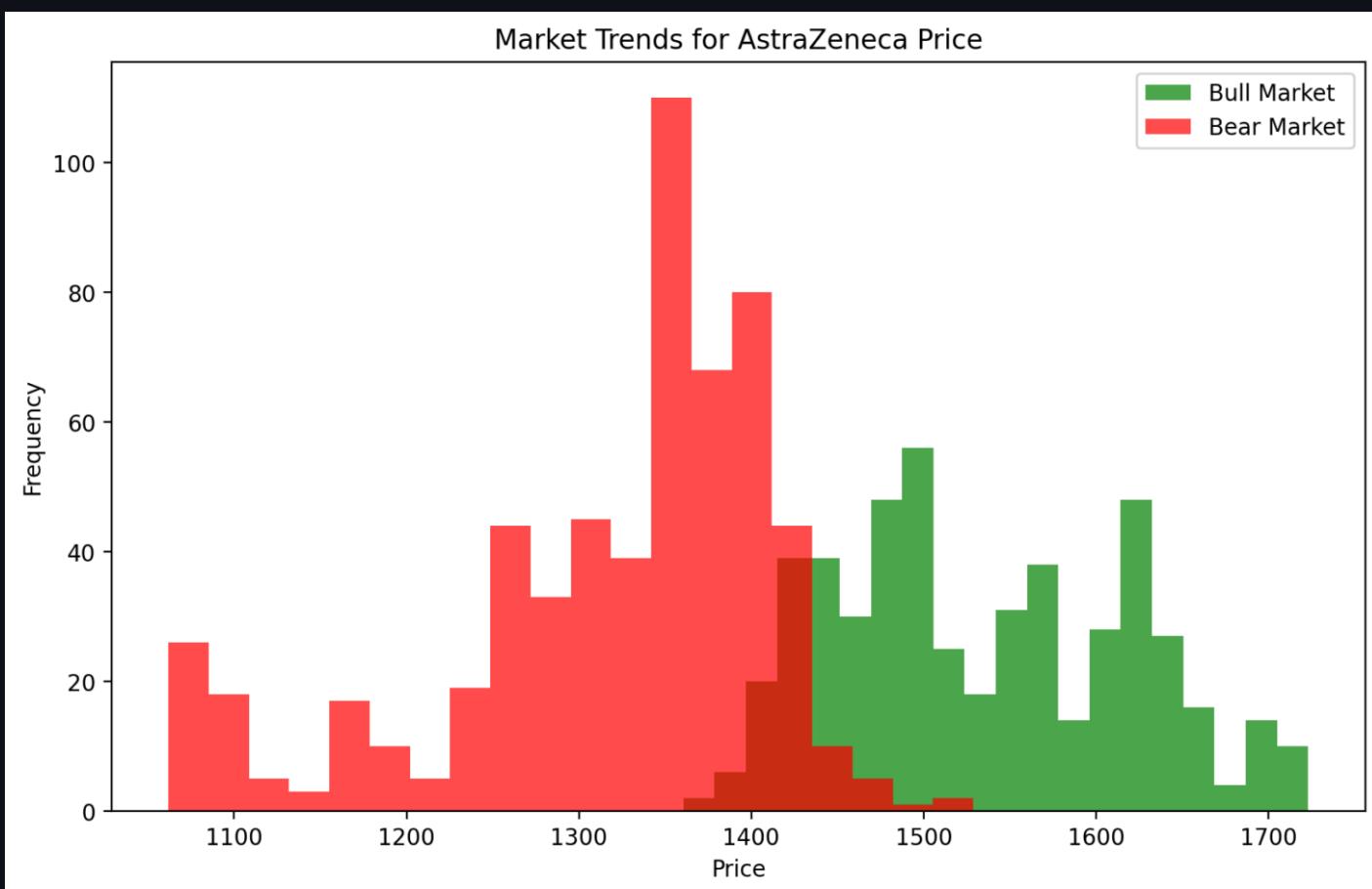
Testing Results for AstraZeneca Price



Market Trend Analysis for AstraZeneca Price

Bull Market Average Prediction: 1532.6279

Bear Market Average Prediction: 1318.2638



Processing Stock: Atlas Copco A Price

Train and test datasets prepared for Atlas Copco A Price.

Training the Model for Atlas Copco A Price

Epoch 1/20, Loss: 0.0408

Epoch 2/20, Loss: 0.0095

Epoch 3/20, Loss: 0.0008

Epoch 4/20, Loss: 0.0004

Epoch 5/20, Loss: 0.0003

Epoch 6/20, Loss: 0.0003

Epoch 7/20, Loss: 0.0002

Epoch 8/20, Loss: 0.0002

Epoch 9/20, Loss: 0.0002

Epoch 10/20, Loss: 0.0002

Epoch 11/20, Loss: 0.0002

Epoch 12/20, Loss: 0.0002

Epoch 13/20, Loss: 0.0001

Epoch 14/20, Loss: 0.0001

Epoch 15/20, Loss: 0.0001

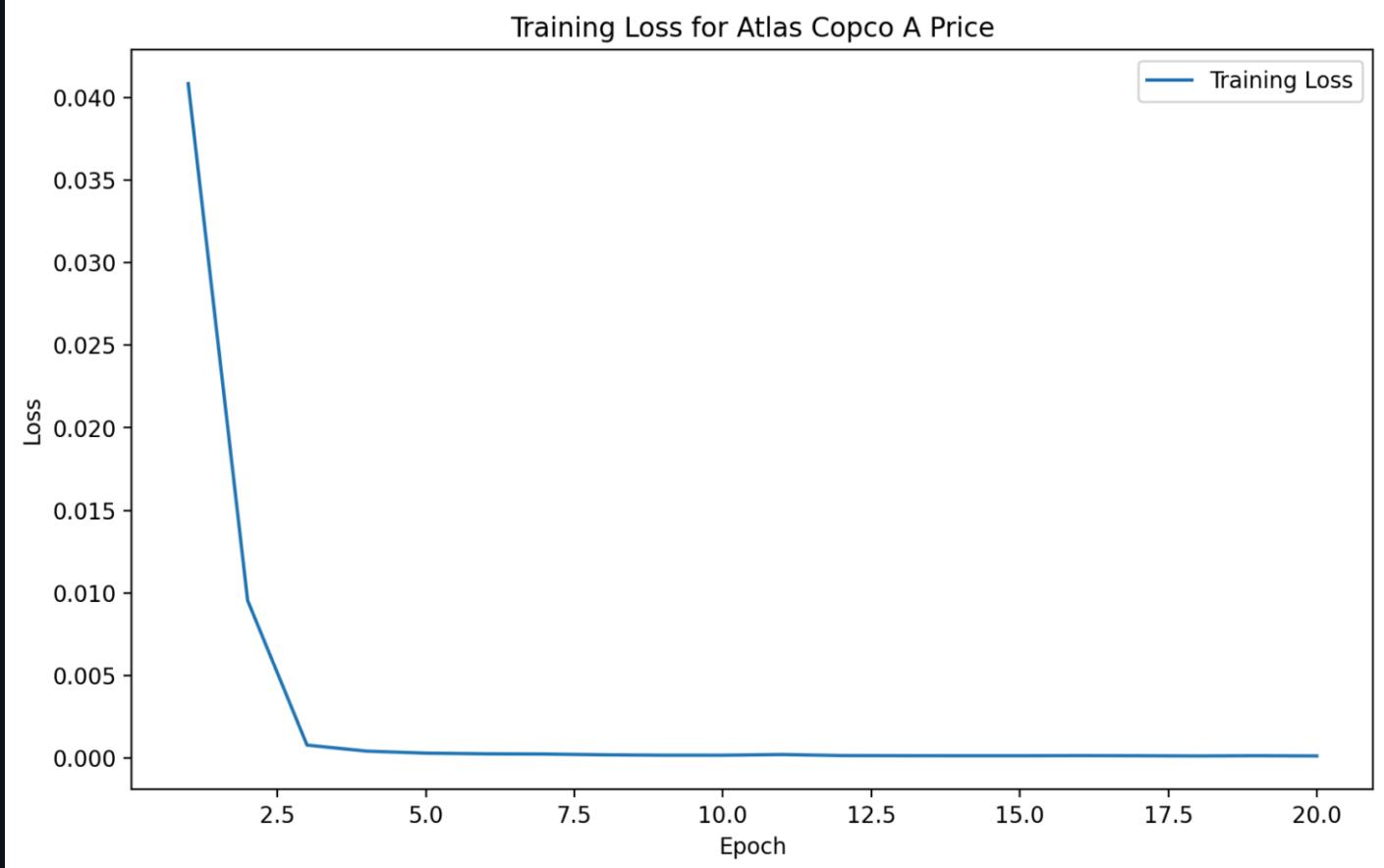
Epoch 16/20, Loss: 0.0001

Epoch 17/20, Loss: 0.0001

Epoch 18/20, Loss: 0.0001

Epoch 19/20, Loss: 0.0001

Epoch 20/20, Loss: 0.0001



Testing the Model for Atlas Copco A Price

Performance Metrics for Atlas Copco A Price

Mean Squared Error (MSE): 32.7420

Mean Absolute Error (MAE): 4.4646

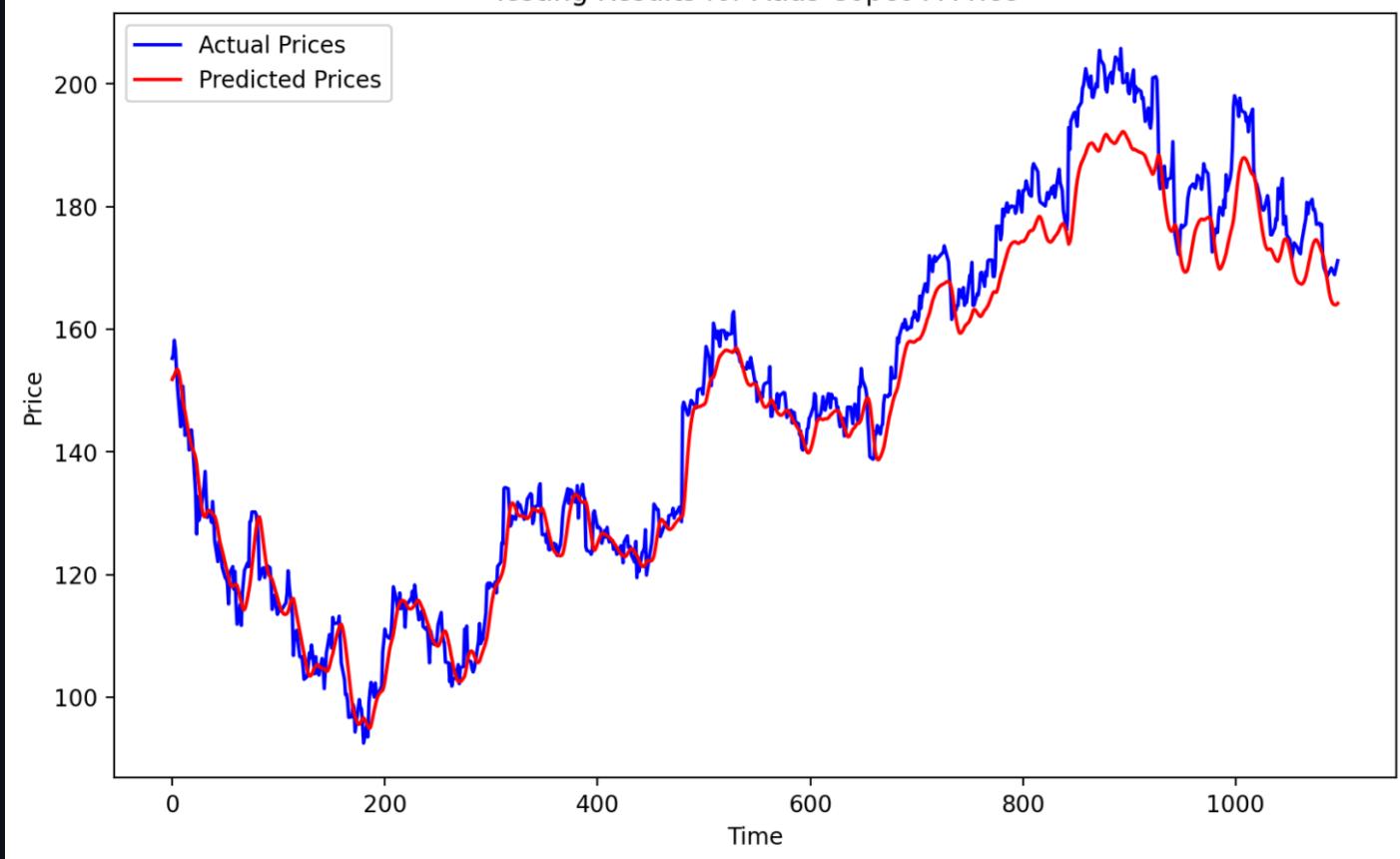
R-Squared (R²): 0.9637

Precision: 0.9814432989690721

Recall: 0.9015151515151515

F1 Score: 0.9397828232971372

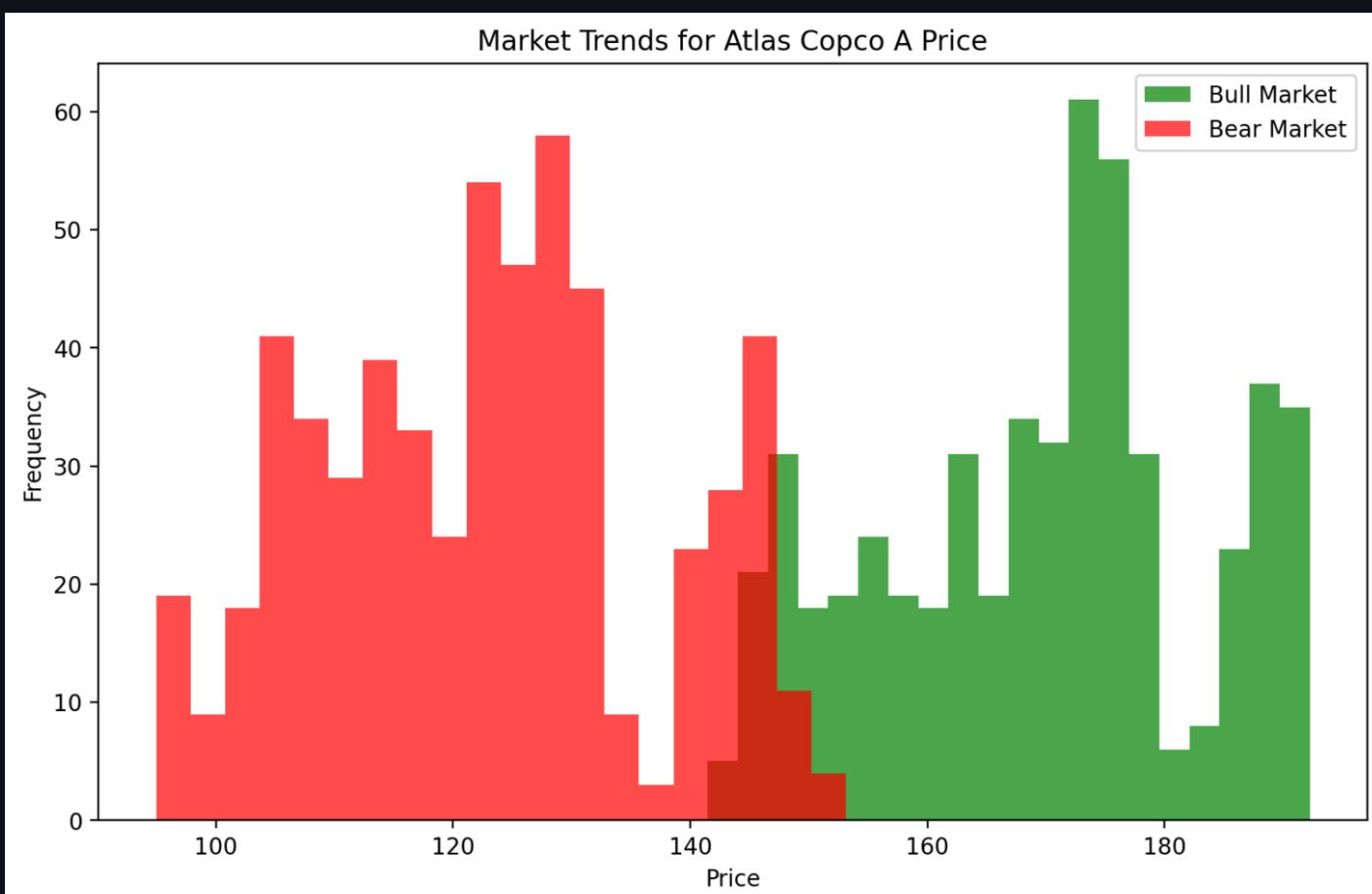
Testing Results for Atlas Copco A Price



Market Trend Analysis for Atlas Copco A Price

Bull Market Average Prediction: 169.3338

Bear Market Average Prediction: 122.7491



Processing Stock: Atlas Copco B Price

Train and test datasets prepared for Atlas Copco B Price.

Training the Model for Atlas Copco B Price

Epoch 1/20, Loss: 0.0444

Epoch 2/20, Loss: 0.0076

Epoch 3/20, Loss: 0.0008

Epoch 4/20, Loss: 0.0004

Epoch 5/20, Loss: 0.0003

Epoch 6/20, Loss: 0.0002

Epoch 7/20, Loss: 0.0002

Epoch 8/20, Loss: 0.0002

Epoch 9/20, Loss: 0.0002

Epoch 10/20, Loss: 0.0002

Epoch 11/20, Loss: 0.0002

Epoch 12/20, Loss: 0.0002

Epoch 13/20, Loss: 0.0002

Epoch 14/20, Loss: 0.0002

Epoch 15/20, Loss: 0.0002

Epoch 16/20, Loss: 0.0002

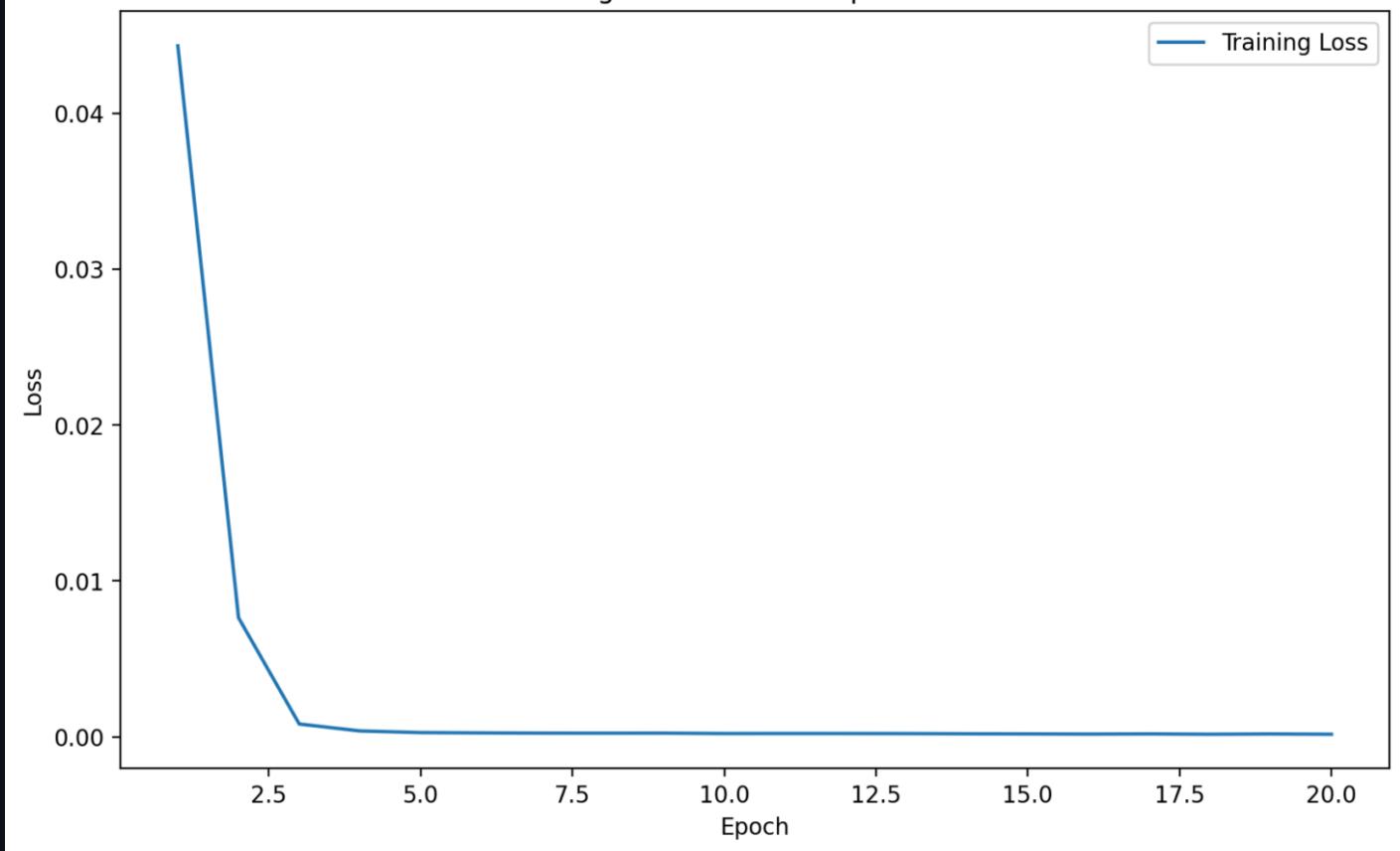
Epoch 17/20, Loss: 0.0002

Epoch 18/20, Loss: 0.0002

Epoch 19/20, Loss: 0.0002

Epoch 20/20, Loss: 0.0002

Training Loss for Atlas Copco B Price



Testing the Model for Atlas Copco B Price

Performance Metrics for Atlas Copco B Price

Mean Squared Error (MSE): 24.4209

Mean Absolute Error (MAE): 3.8208

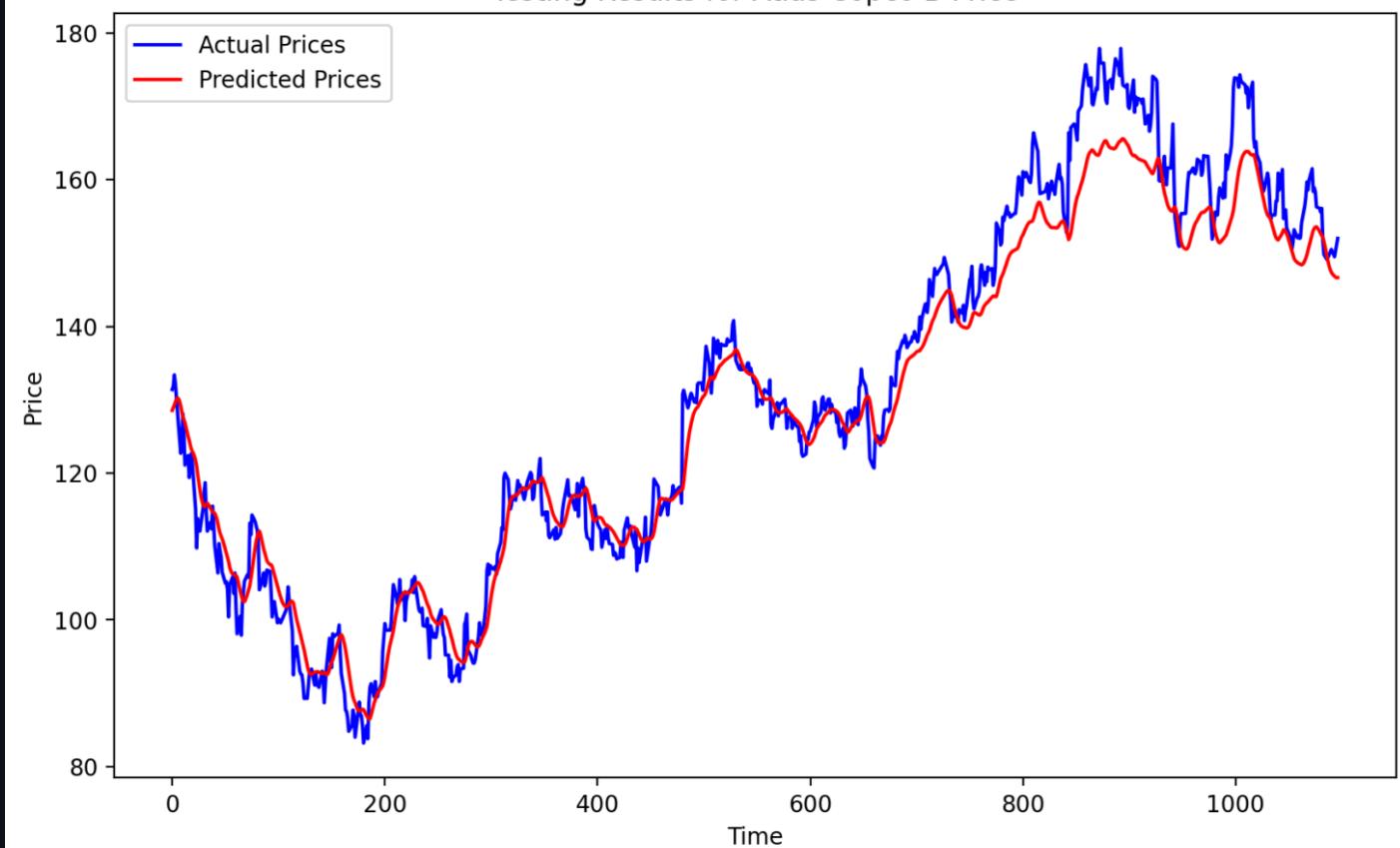
R-Squared (R²): 0.9622

Precision: 0.97727272727273

Recall: 0.9256360078277887

F1 Score: 0.9507537688442211

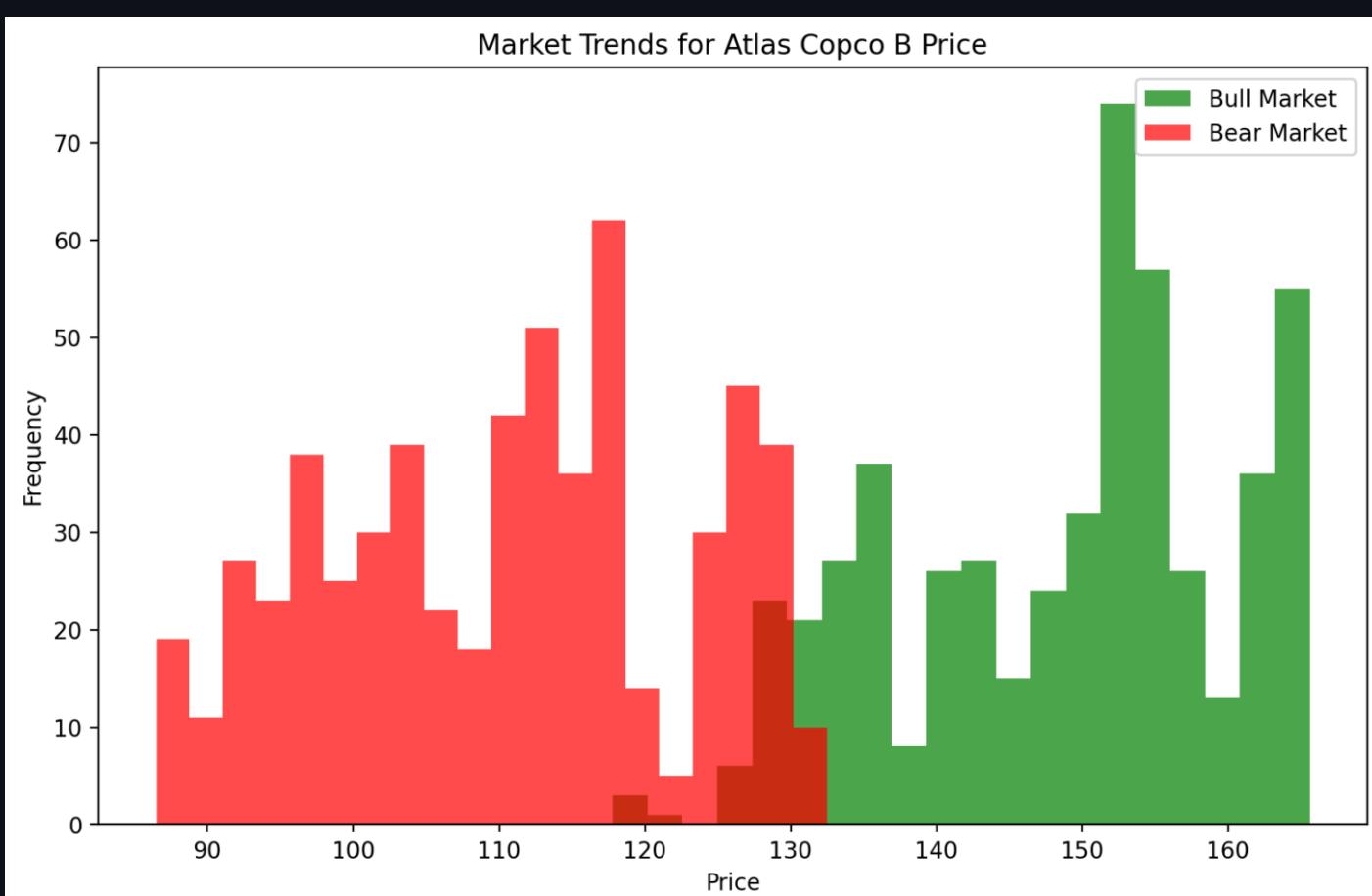
Testing Results for Atlas Copco B Price



Market Trend Analysis for Atlas Copco B Price

Bull Market Average Prediction: 148.4442

Bear Market Average Prediction: 110.4957



Processing Stock: Boliden Price

Train and test datasets prepared for Boliden Price.

Training the Model for Boliden Price

Epoch 1/20, Loss: 0.0367

Epoch 2/20, Loss: 0.0081

Epoch 3/20, Loss: 0.0014

Epoch 4/20, Loss: 0.0007

Epoch 5/20, Loss: 0.0006

Epoch 6/20, Loss: 0.0005

Epoch 7/20, Loss: 0.0005

Epoch 8/20, Loss: 0.0005

Epoch 9/20, Loss: 0.0005

Epoch 10/20, Loss: 0.0004

Epoch 11/20, Loss: 0.0004

Epoch 12/20, Loss: 0.0004

Epoch 13/20, Loss: 0.0003

Epoch 14/20, Loss: 0.0003

Epoch 15/20, Loss: 0.0003

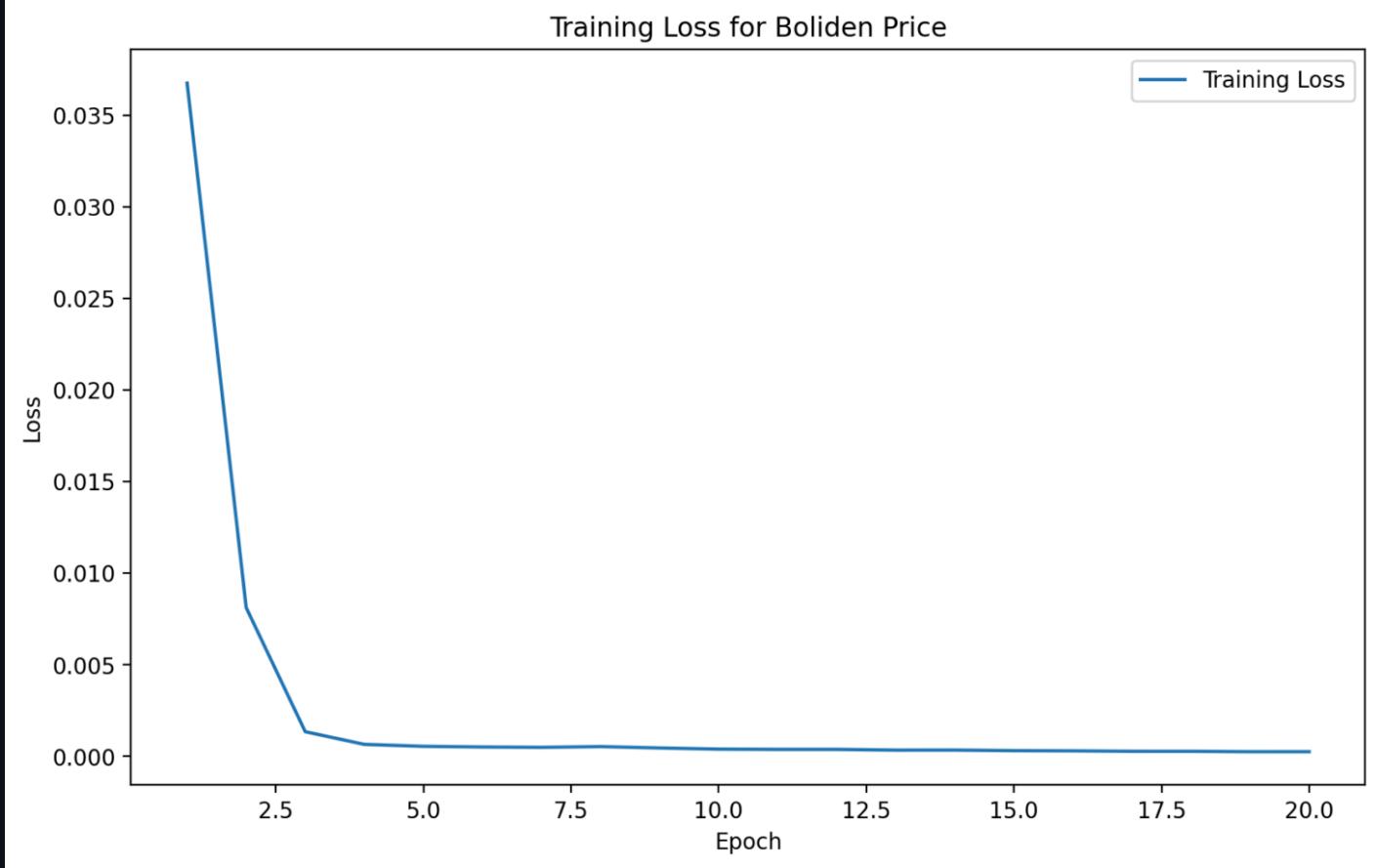
Epoch 16/20, Loss: 0.0003

Epoch 17/20, Loss: 0.0003

Epoch 18/20, Loss: 0.0003

Epoch 19/20, Loss: 0.0003

Epoch 20/20, Loss: 0.0003



Testing the Model for Boliden Price

Performance Metrics for Boliden Price

Mean Squared Error (MSE): 128.7029

Mean Absolute Error (MAE): 8.7127

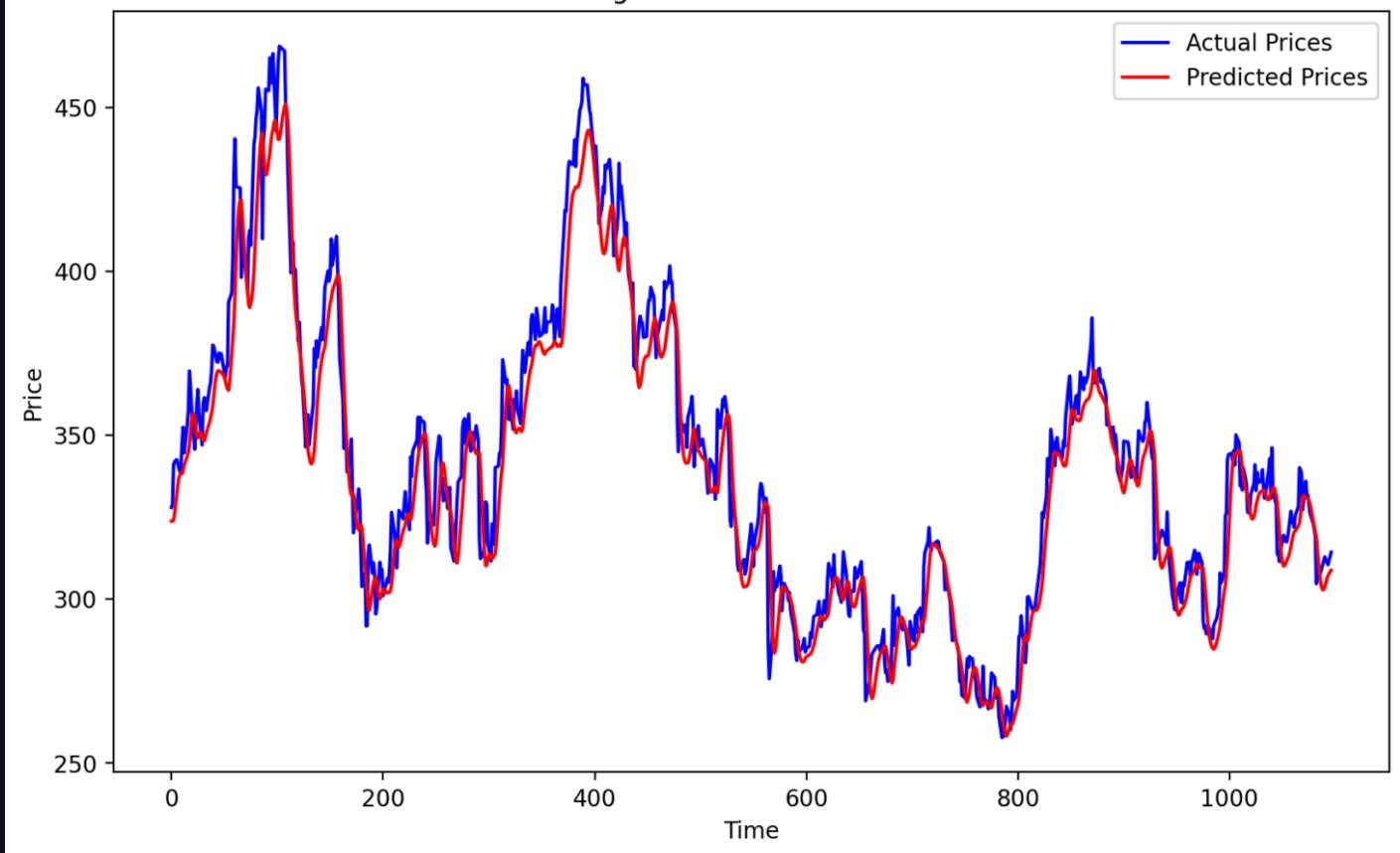
R-Squared (R²): 0.9389

Precision: 0.9655172413793104

Recall: 0.8906560636182903

F1 Score: 0.9265770423991727

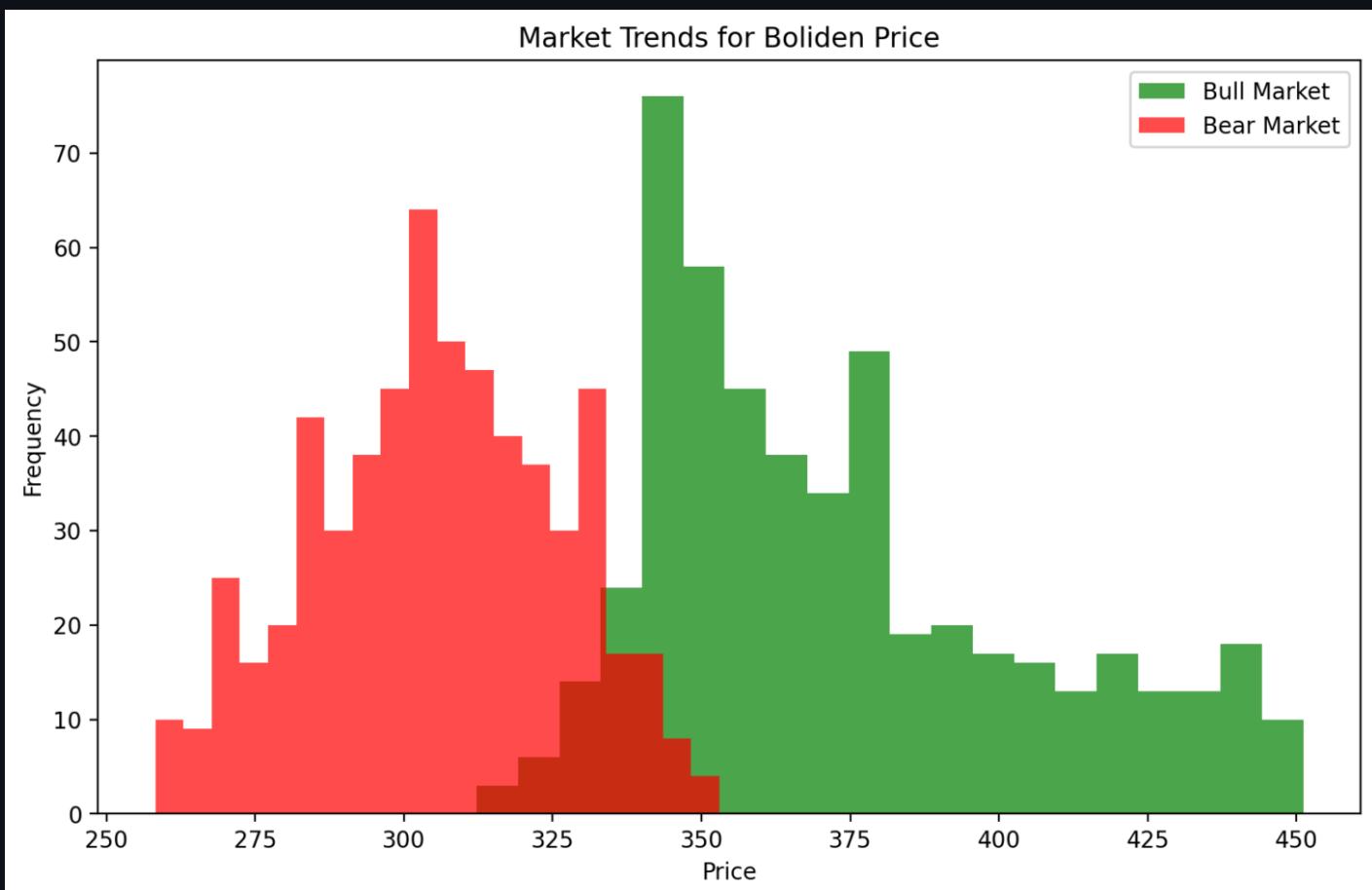
Testing Results for Boliden Price



Market Trend Analysis for Boliden Price

Bull Market Average Prediction: 372.9089

Bear Market Average Prediction: 305.5063



Processing Stock: Carlsberg B Price

Train and test datasets prepared for Carlsberg B Price.

Training the Model for Carlsberg B Price

Epoch 1/20, Loss: 0.0791

Epoch 2/20, Loss: 0.0113

Epoch 3/20, Loss: 0.0020

Epoch 4/20, Loss: 0.0014

Epoch 5/20, Loss: 0.0012

Epoch 6/20, Loss: 0.0010

Epoch 7/20, Loss: 0.0008

Epoch 8/20, Loss: 0.0008

Epoch 9/20, Loss: 0.0008

Epoch 10/20, Loss: 0.0008

Epoch 11/20, Loss: 0.0008

Epoch 12/20, Loss: 0.0006

Epoch 13/20, Loss: 0.0007

Epoch 14/20, Loss: 0.0006

Epoch 15/20, Loss: 0.0006

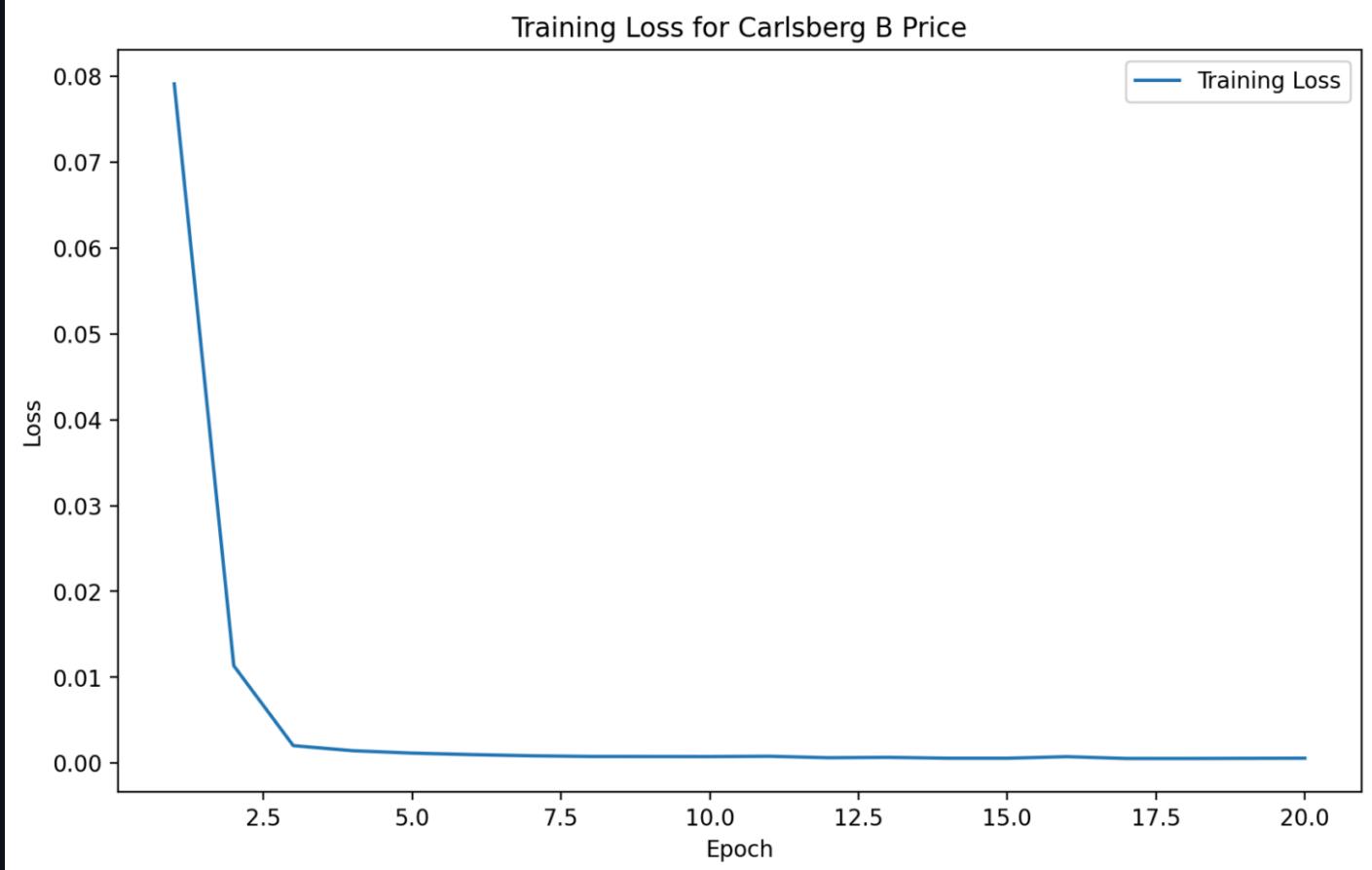
Epoch 16/20, Loss: 0.0007

Epoch 17/20, Loss: 0.0005

Epoch 18/20, Loss: 0.0005

Epoch 19/20, Loss: 0.0006

Epoch 20/20, Loss: 0.0006



Testing the Model for Carlsberg B Price

Performance Metrics for Carlsberg B Price

Mean Squared Error (MSE): 430.1451

Mean Absolute Error (MAE): 16.4846

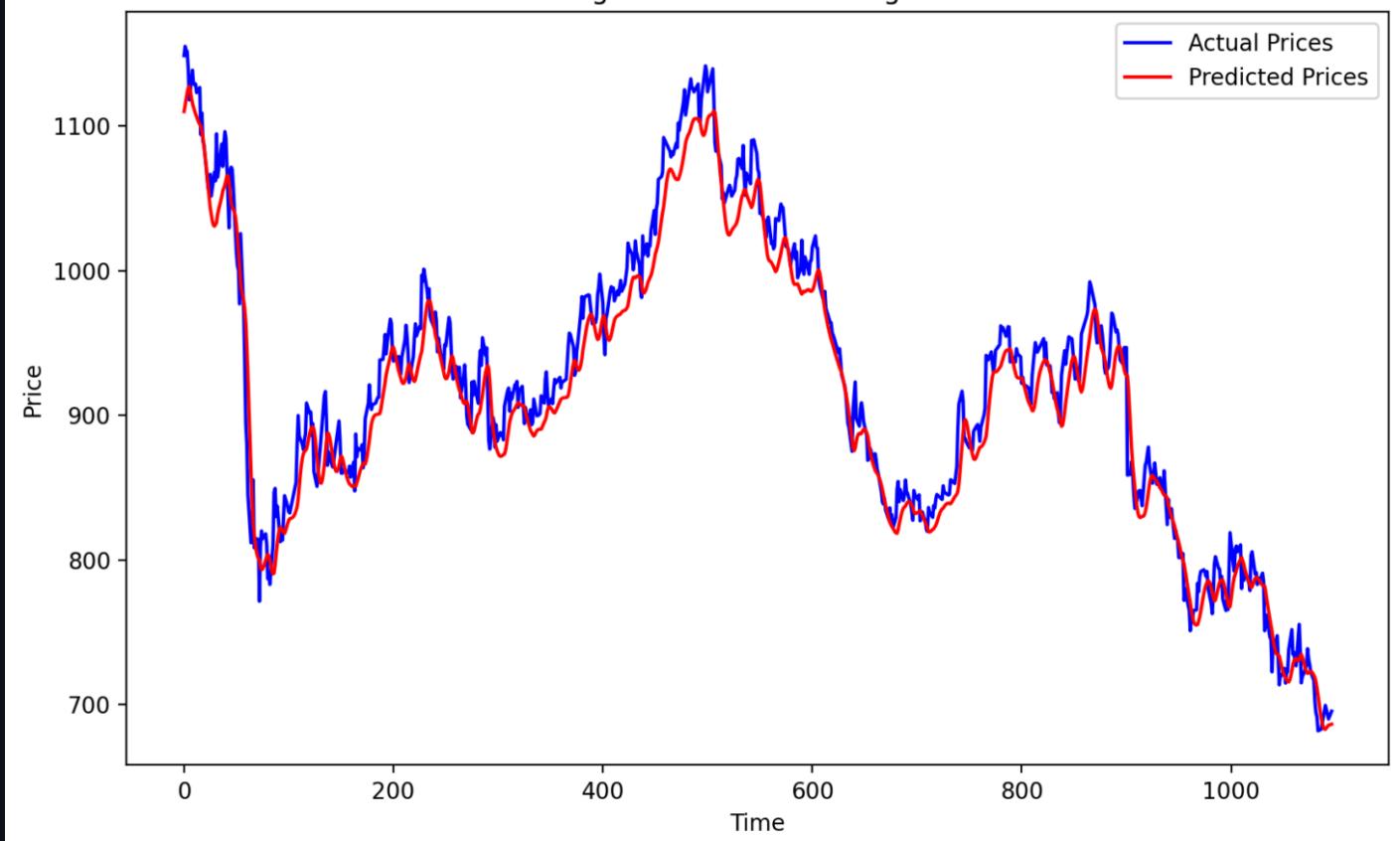
R-Squared (R²): 0.9580

Precision: 0.9839679358717435

Recall: 0.8846846846846846

F1 Score: 0.9316888045540797

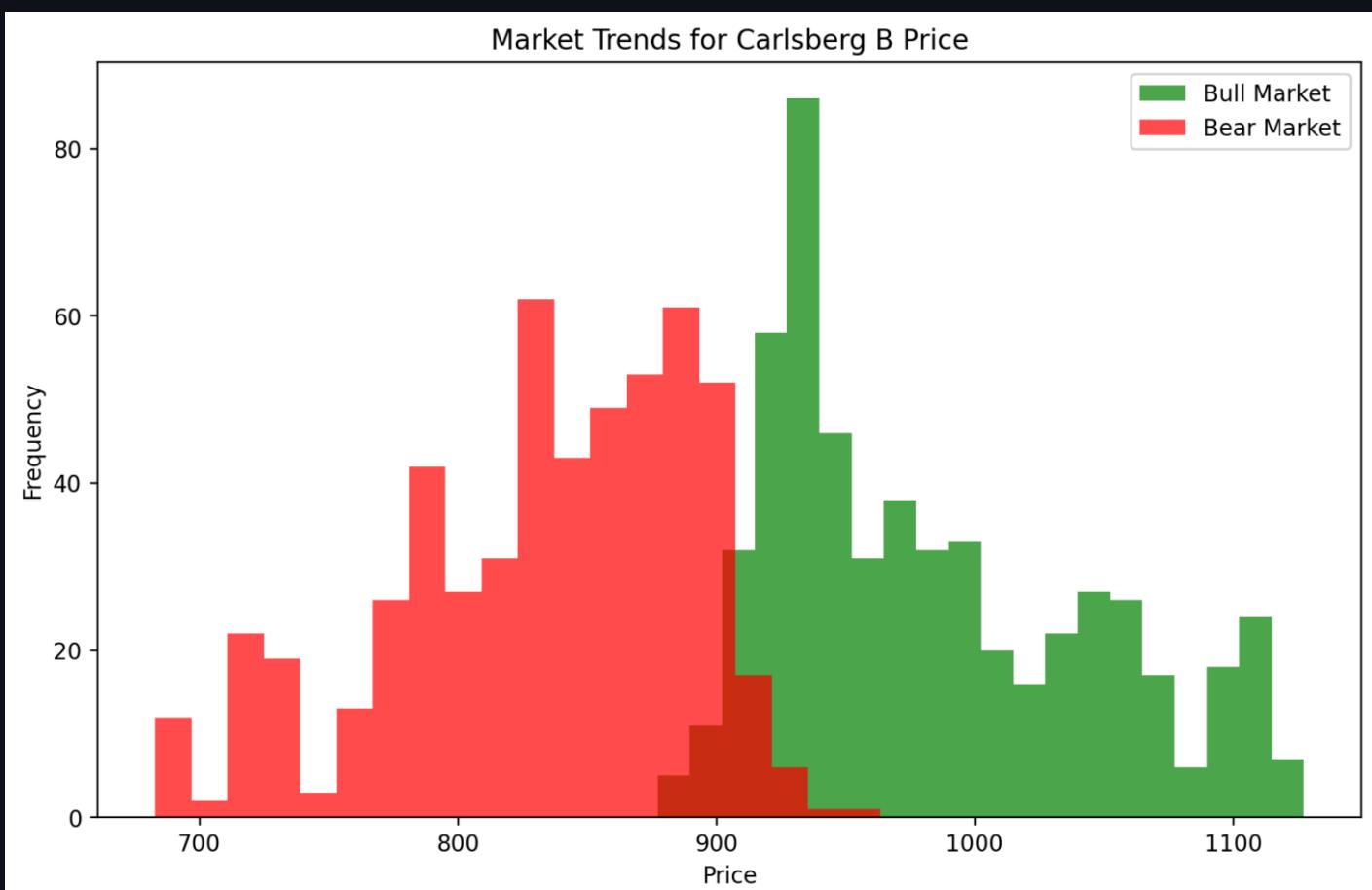
Testing Results for Carlsberg B Price



Market Trend Analysis for Carlsberg B Price

Bull Market Average Prediction: 982.5656

Bear Market Average Prediction: 833.3703



Processing Stock: Coloplast Price

Train and test datasets prepared for Coloplast Price.

Training the Model for Coloplast Price

Epoch 1/20, Loss: 0.0816

Epoch 2/20, Loss: 0.0044

Epoch 3/20, Loss: 0.0011

Epoch 4/20, Loss: 0.0009

Epoch 5/20, Loss: 0.0008

Epoch 6/20, Loss: 0.0007

Epoch 7/20, Loss: 0.0007

Epoch 8/20, Loss: 0.0007

Epoch 9/20, Loss: 0.0007

Epoch 10/20, Loss: 0.0006

Epoch 11/20, Loss: 0.0006

Epoch 12/20, Loss: 0.0006

Epoch 13/20, Loss: 0.0006

Epoch 14/20, Loss: 0.0005

Epoch 15/20, Loss: 0.0005

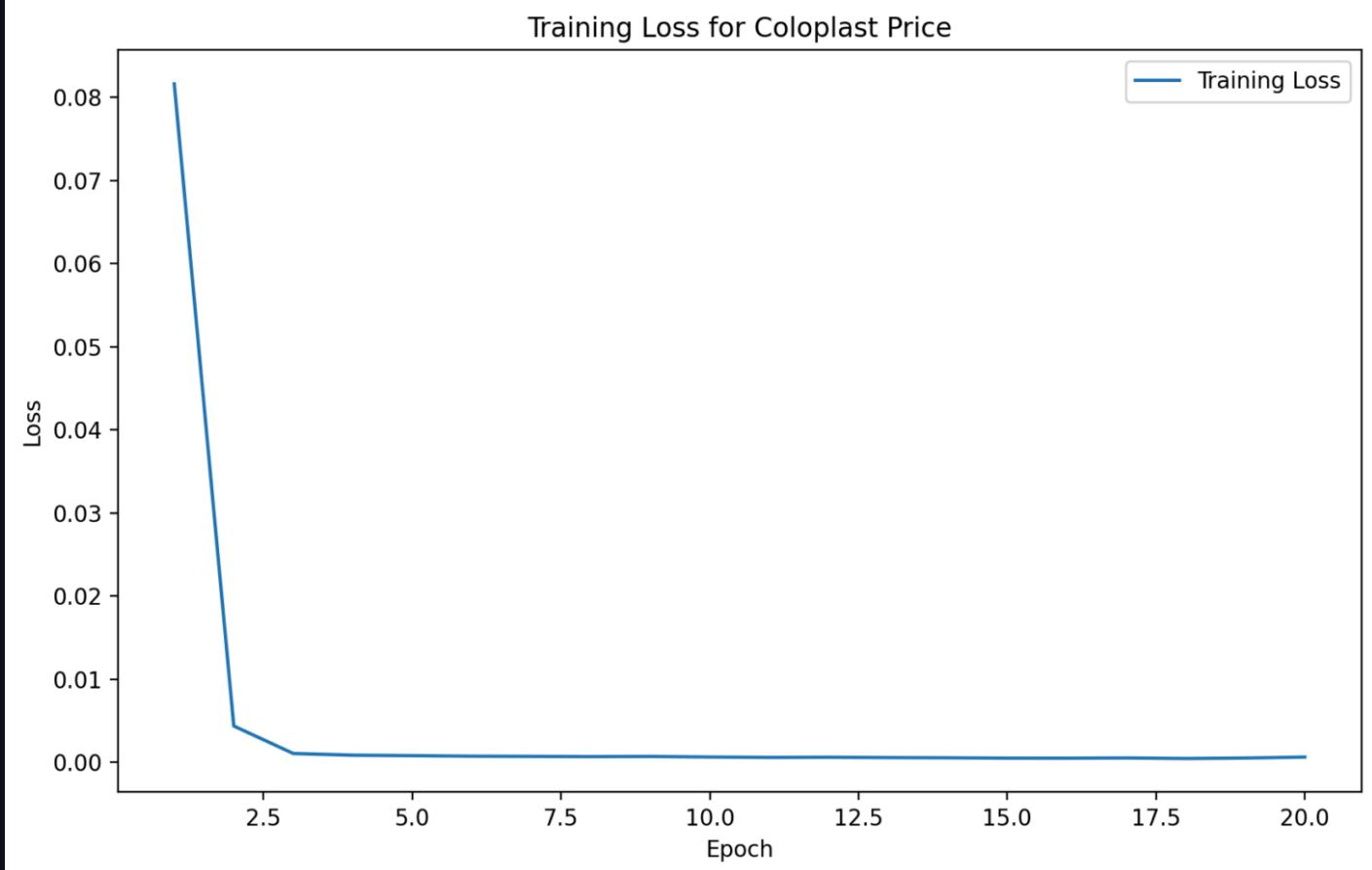
Epoch 16/20, Loss: 0.0005

Epoch 17/20, Loss: 0.0005

Epoch 18/20, Loss: 0.0005

Epoch 19/20, Loss: 0.0005

Epoch 20/20, Loss: 0.0006



Testing the Model for Coloplast Price

Performance Metrics for Coloplast Price

Mean Squared Error (MSE): 582.1982

Mean Absolute Error (MAE): 18.6412

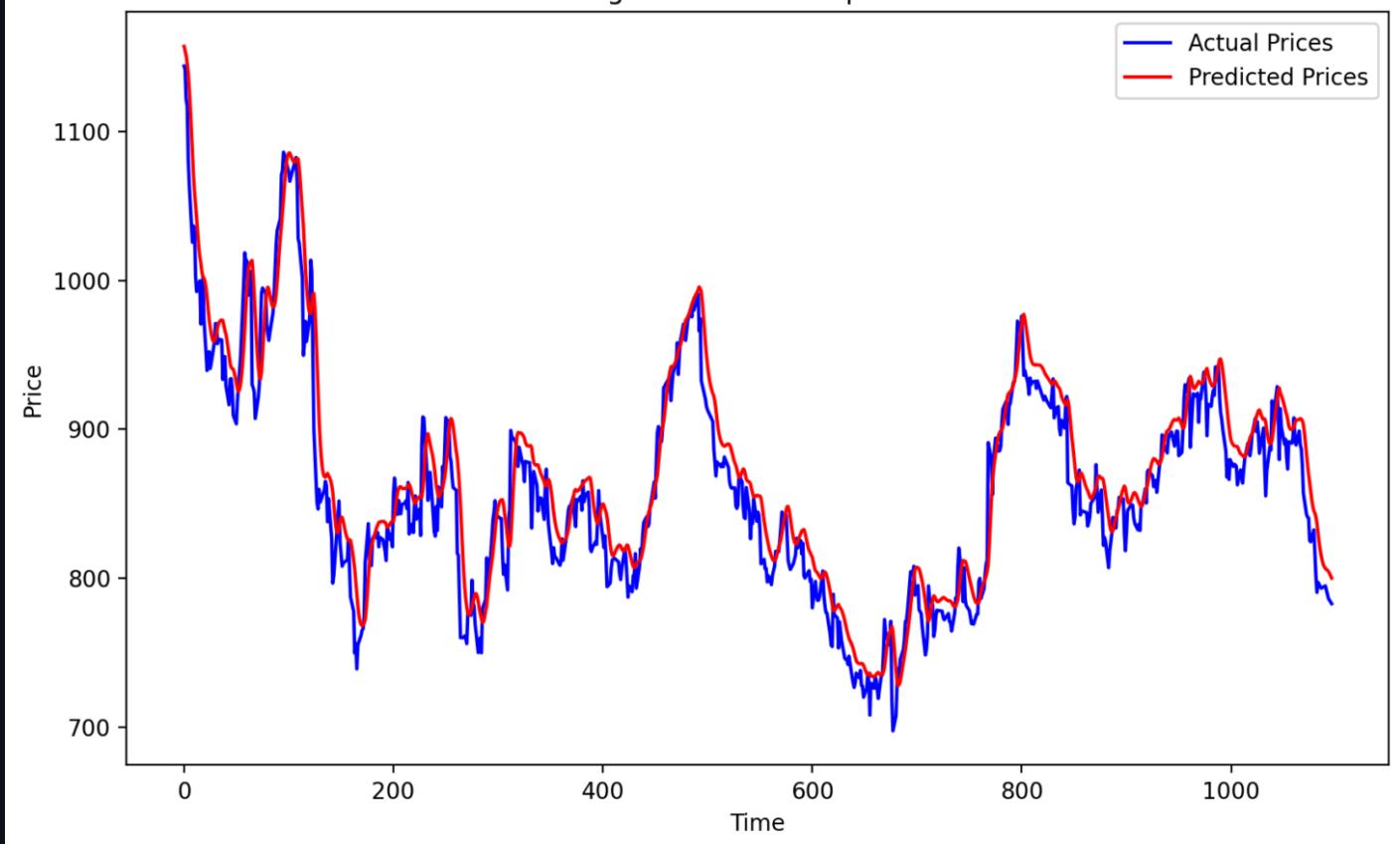
R-Squared (R²): 0.8942

Precision: 0.8293103448275863

Recall: 0.9756592292089249

F1 Score: 0.896551724137931

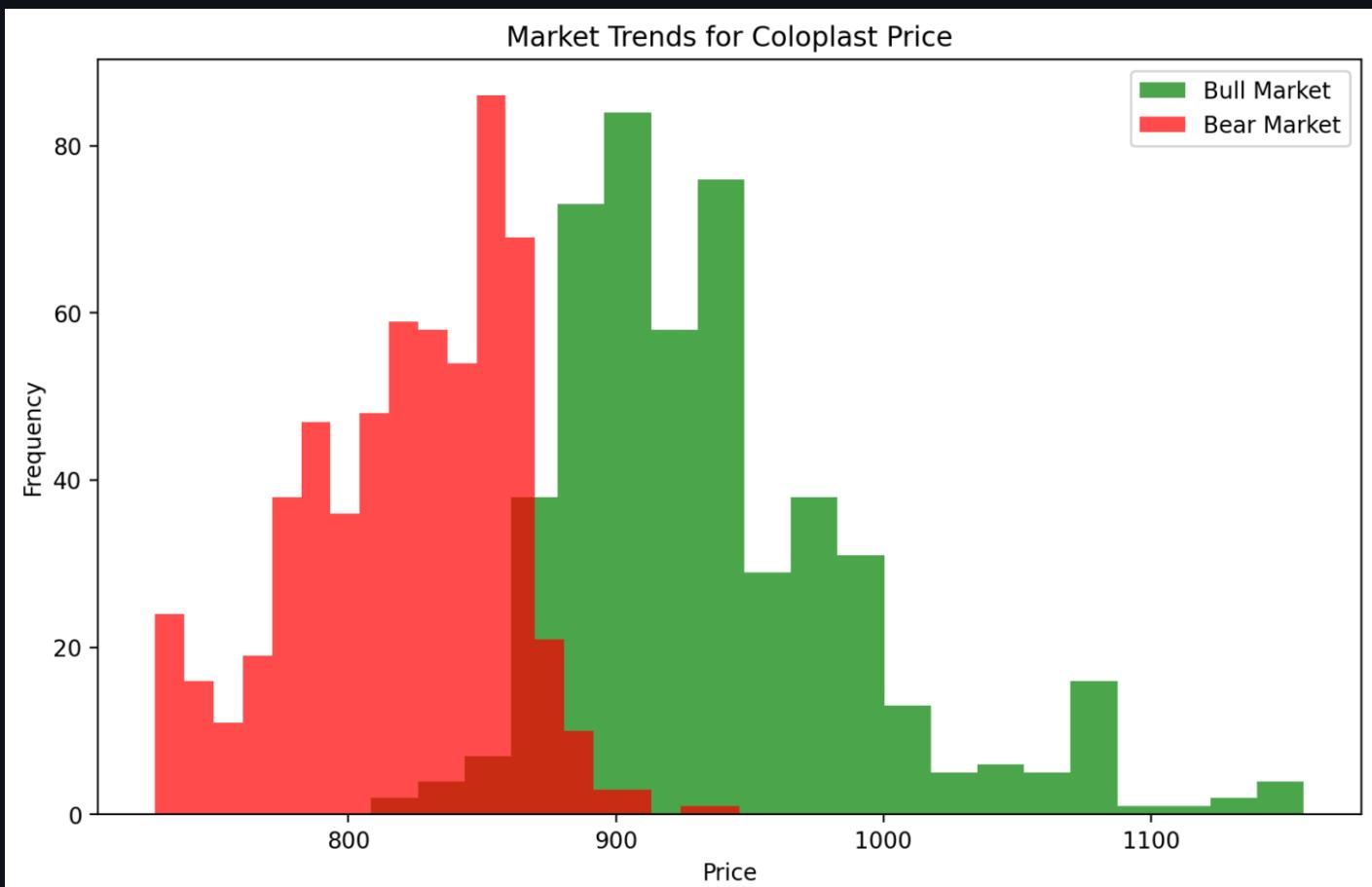
Testing Results for Coloplast Price



Market Trend Analysis for Coloplast Price

Bull Market Average Prediction: 935.6483

Bear Market Average Prediction: 821.3841



Processing Stock: Danske Bank Price

Train and test datasets prepared for Danske Bank Price.

Training the Model for Danske Bank Price

Epoch 1/20, Loss: 0.0915

Epoch 2/20, Loss: 0.0065

Epoch 3/20, Loss: 0.0011

Epoch 4/20, Loss: 0.0009

Epoch 5/20, Loss: 0.0008

Epoch 6/20, Loss: 0.0007

Epoch 7/20, Loss: 0.0007

Epoch 8/20, Loss: 0.0006

Epoch 9/20, Loss: 0.0006

Epoch 10/20, Loss: 0.0006

Epoch 11/20, Loss: 0.0005

Epoch 12/20, Loss: 0.0005

Epoch 13/20, Loss: 0.0005

Epoch 14/20, Loss: 0.0006

Epoch 15/20, Loss: 0.0005

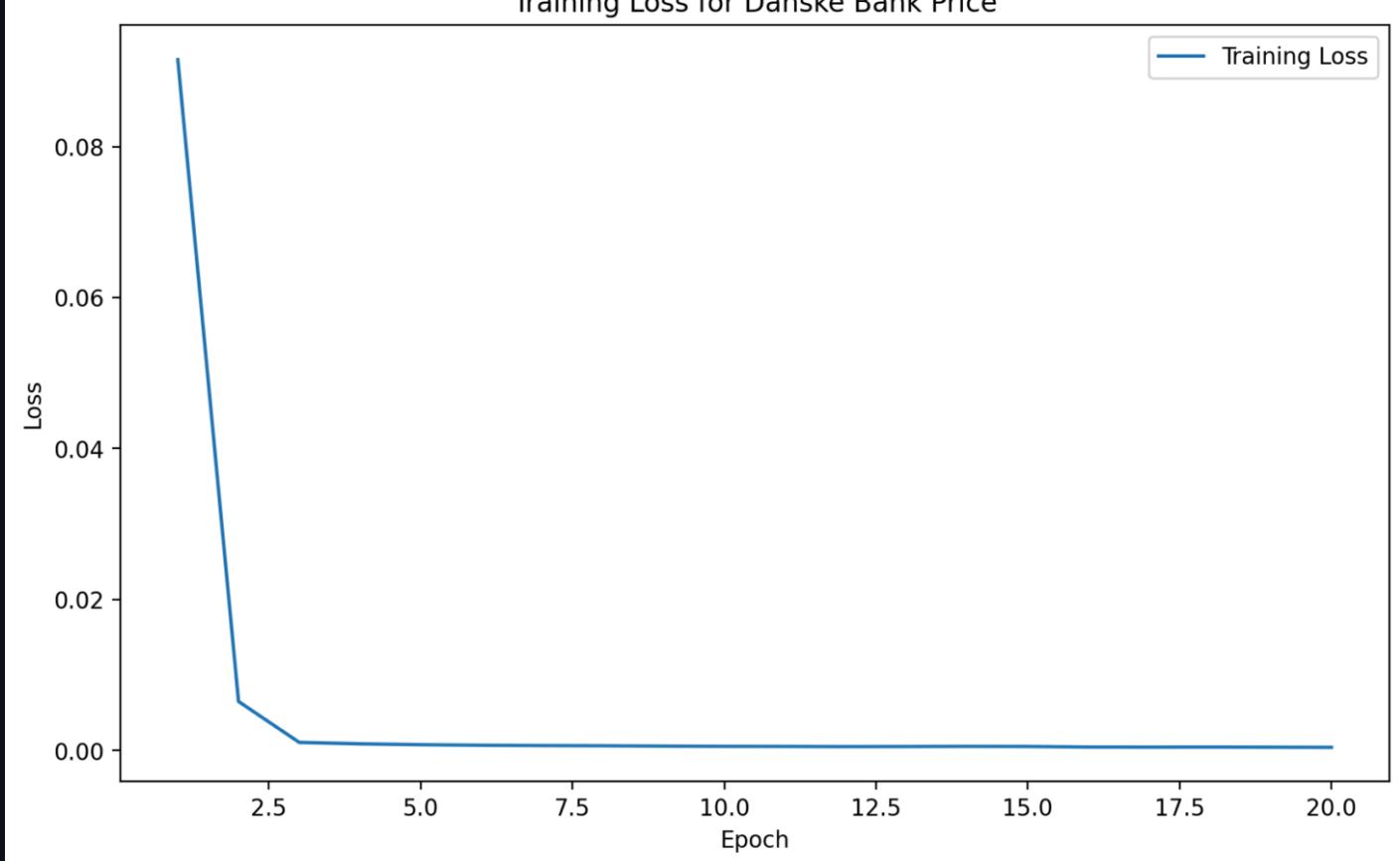
Epoch 16/20, Loss: 0.0005

Epoch 17/20, Loss: 0.0005

Epoch 18/20, Loss: 0.0005

Epoch 19/20, Loss: 0.0004

Epoch 20/20, Loss: 0.0004



Testing the Model for Danske Bank Price

Performance Metrics for Danske Bank Price

Mean Squared Error (MSE): 17.6766

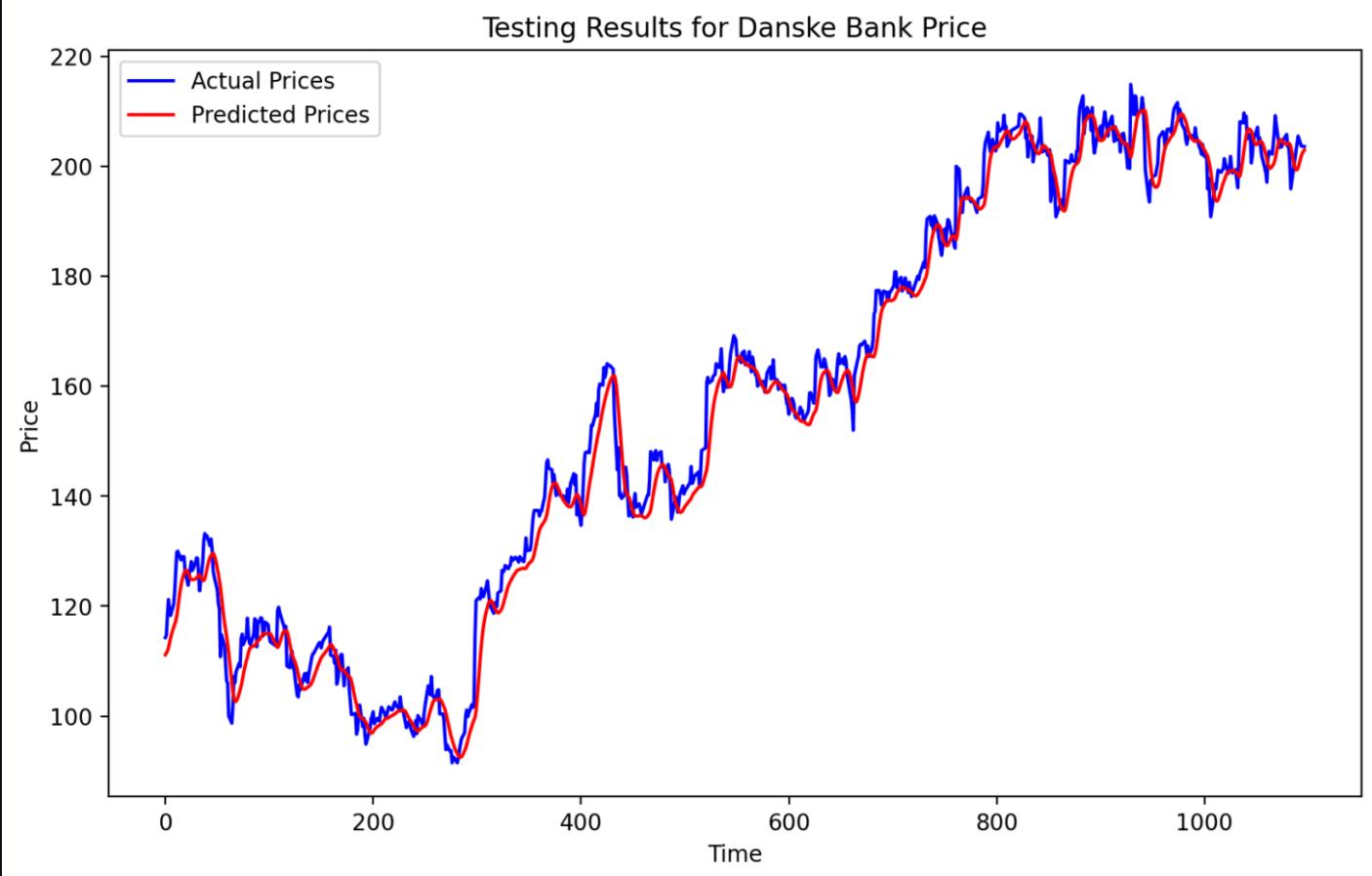
Mean Absolute Error (MAE): 3.1646

R-Squared (R2): 0.9878

Precision: 0.983754512635379

Recall: 0.9595070422535211

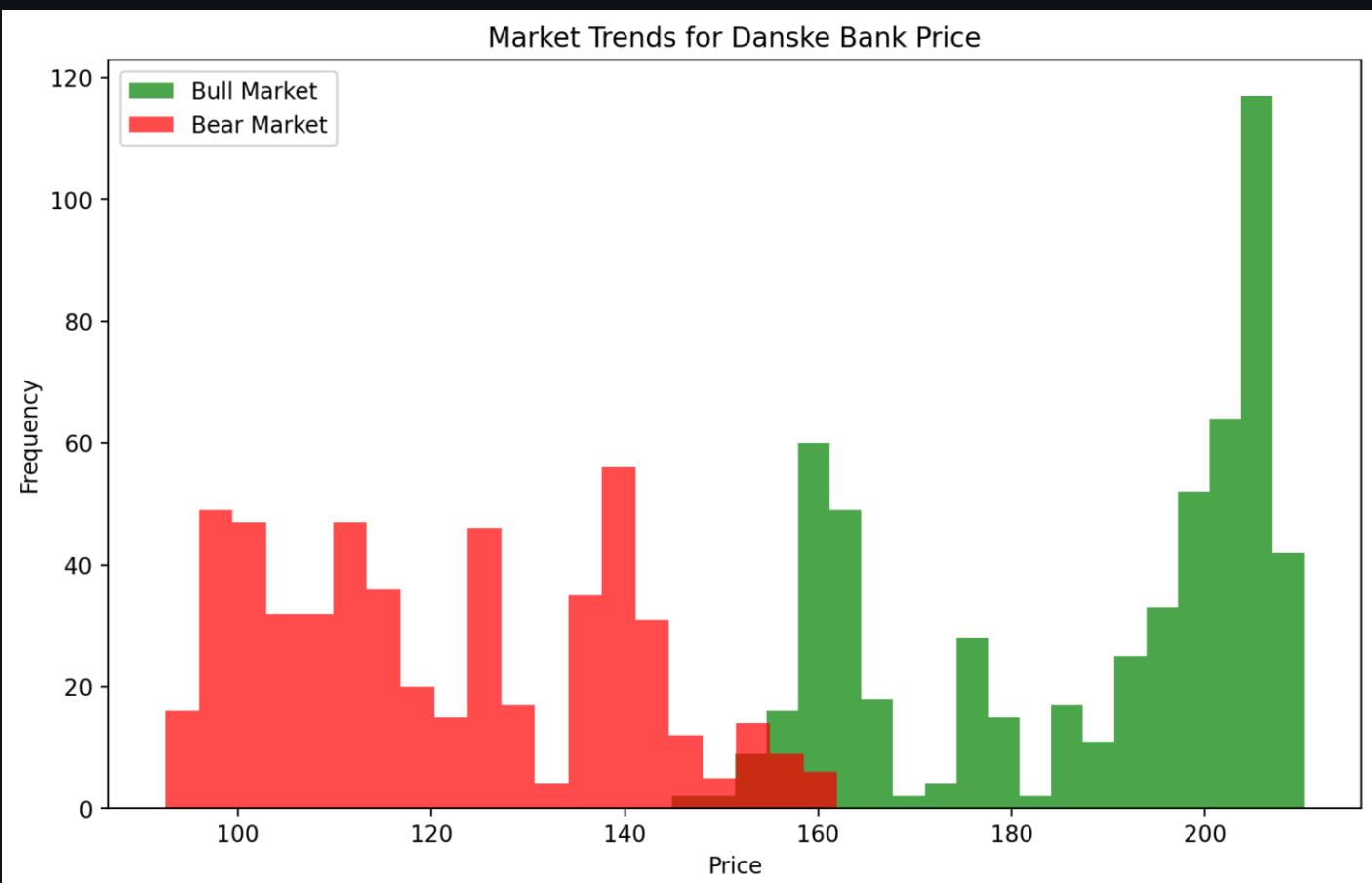
F1 Score: 0.9714795008912656



Market Trend Analysis for Danske Bank Price

Bull Market Average Prediction: 187.7133

Bear Market Average Prediction: 120.9229



Processing Stock: DSV Price

Train and test datasets prepared for DSV Price.

Training the Model for DSV Price

Epoch 1/20, Loss: 0.0568

Epoch 2/20, Loss: 0.0037

Epoch 3/20, Loss: 0.0007

Epoch 4/20, Loss: 0.0004

Epoch 5/20, Loss: 0.0003

Epoch 6/20, Loss: 0.0003

Epoch 7/20, Loss: 0.0002

Epoch 8/20, Loss: 0.0002

Epoch 9/20, Loss: 0.0002

Epoch 10/20, Loss: 0.0002

Epoch 11/20, Loss: 0.0002

Epoch 12/20, Loss: 0.0002

Epoch 13/20, Loss: 0.0002

Epoch 14/20, Loss: 0.0002

Epoch 15/20, Loss: 0.0002

Epoch 16/20, Loss: 0.0002

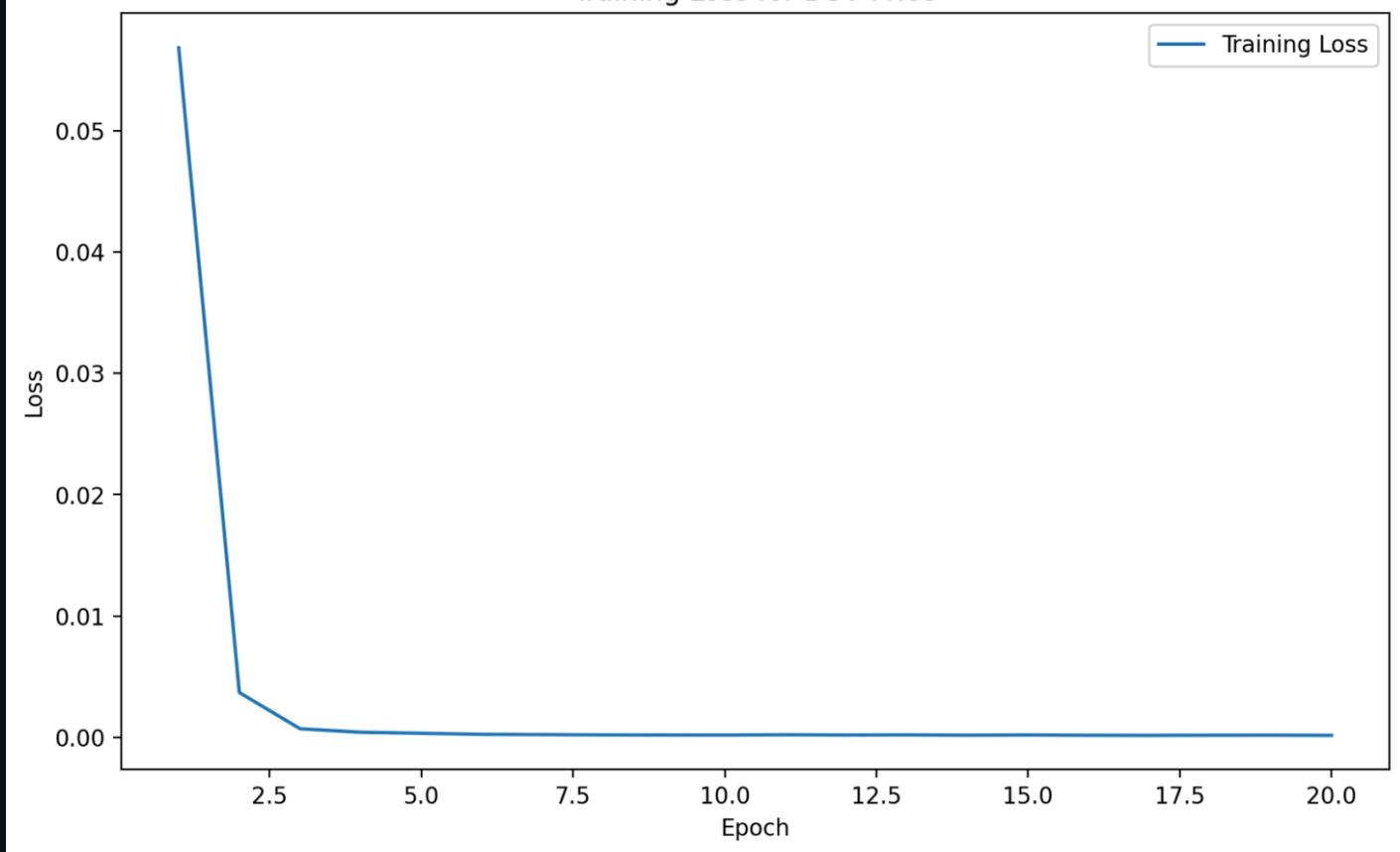
Epoch 17/20, Loss: 0.0002

Epoch 18/20, Loss: 0.0002

Epoch 19/20, Loss: 0.0002

Epoch 20/20, Loss: 0.0002

Training Loss for DSV Price



Testing the Model for DSV Price

Performance Metrics for DSV Price

Mean Squared Error (MSE): 1407.1427

Mean Absolute Error (MAE): 27.4572

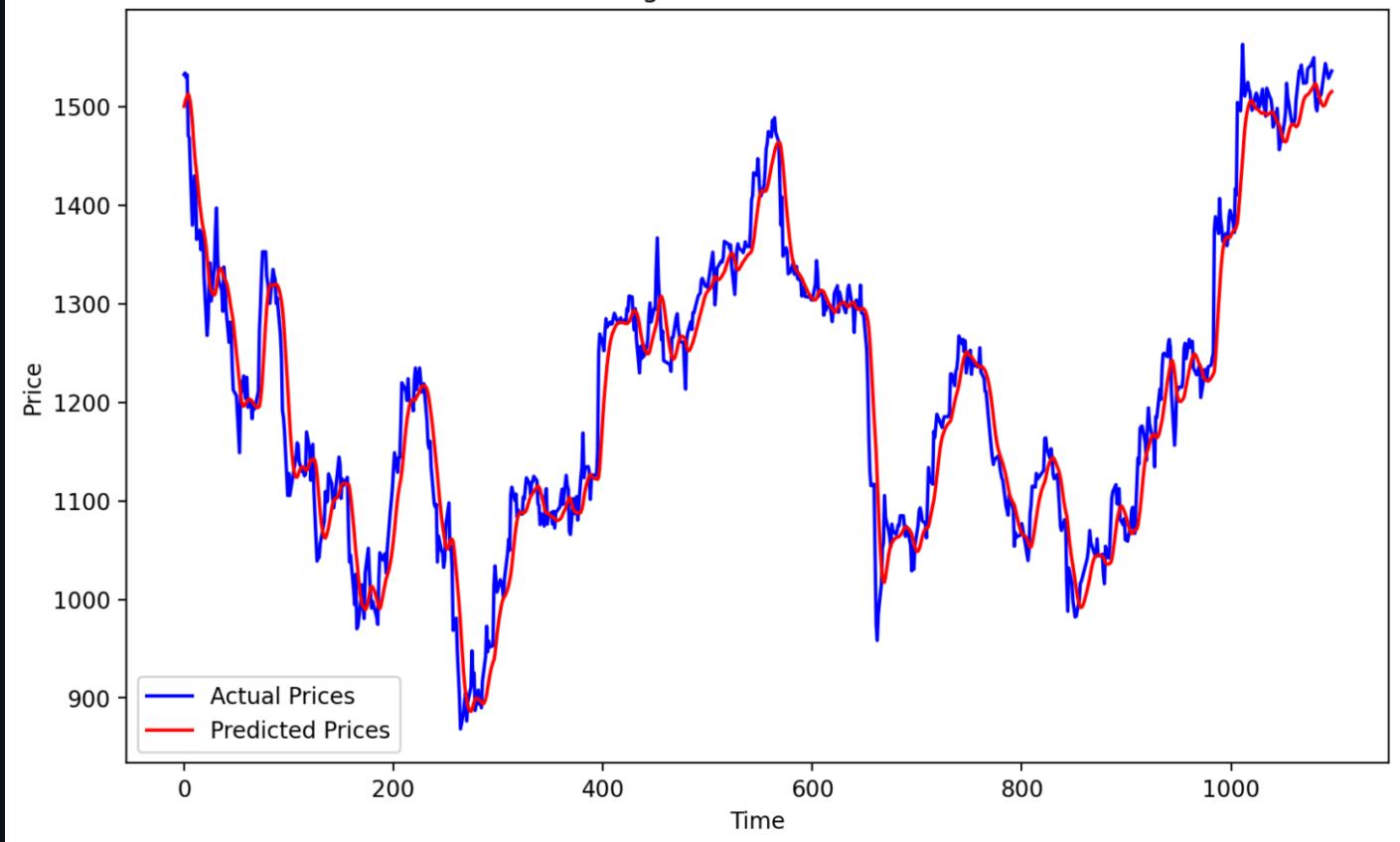
R-Squared (R2): 0.9401

Precision: 0.9389312977099237

Recall: 0.917910447761194

F1 Score: 0.9283018867924528

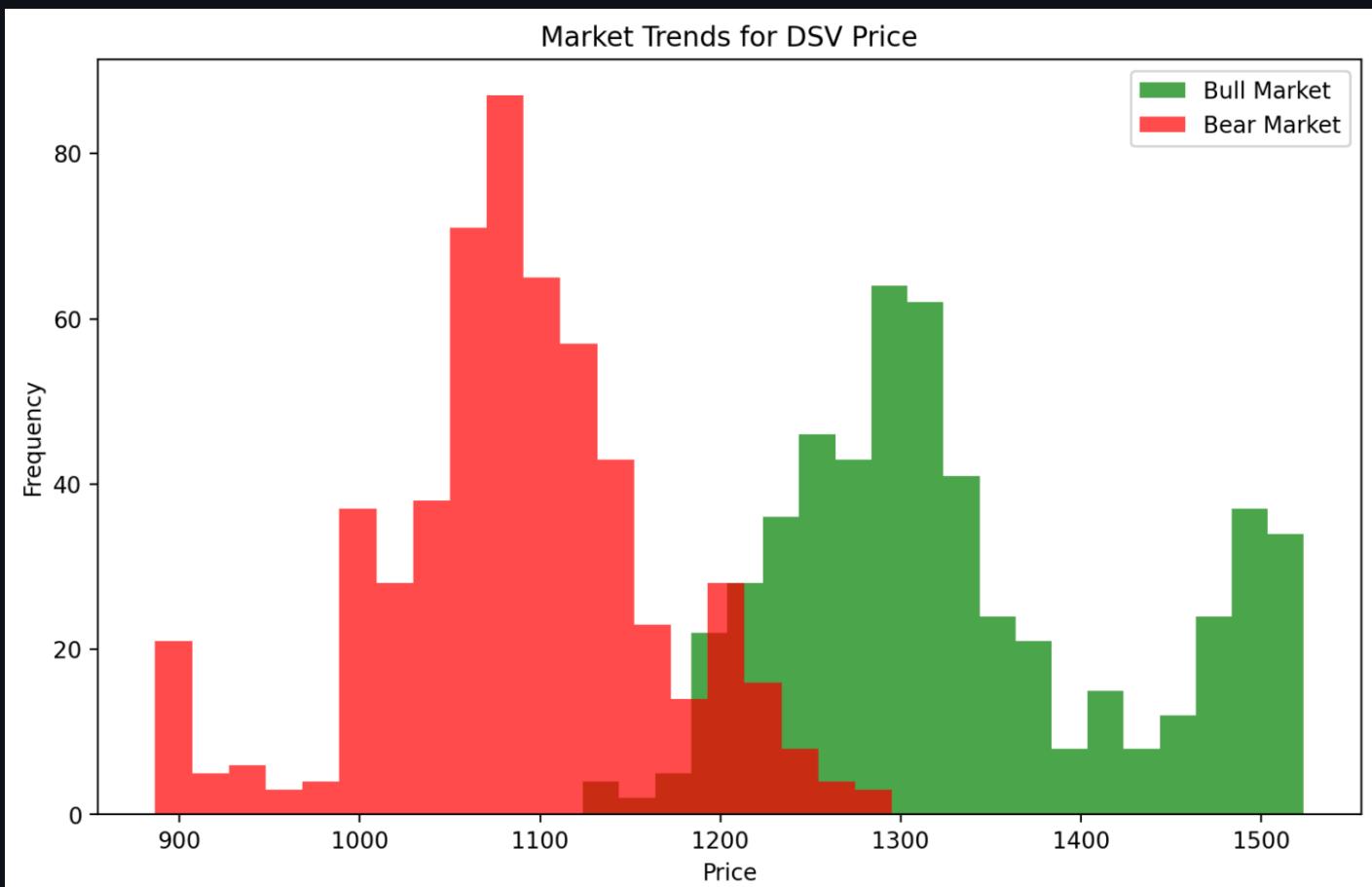
Testing Results for DSV Price



Market Trend Analysis for DSV Price

Bull Market Average Prediction: 1331.2080

Bear Market Average Prediction: 1087.3556



Processing Stock: EQT AB Price

Train and test datasets prepared for EQT AB Price.

Training the Model for EQT AB Price

Epoch 1/20, Loss: 0.0930

Epoch 2/20, Loss: 0.0350

Epoch 3/20, Loss: 0.0100

Epoch 4/20, Loss: 0.0033

Epoch 5/20, Loss: 0.0020

Epoch 6/20, Loss: 0.0016

Epoch 7/20, Loss: 0.0015

Epoch 8/20, Loss: 0.0013

Epoch 9/20, Loss: 0.0013

Epoch 10/20, Loss: 0.0013

Epoch 11/20, Loss: 0.0012

Epoch 12/20, Loss: 0.0011

Epoch 13/20, Loss: 0.0010

Epoch 14/20, Loss: 0.0010

Epoch 15/20, Loss: 0.0009

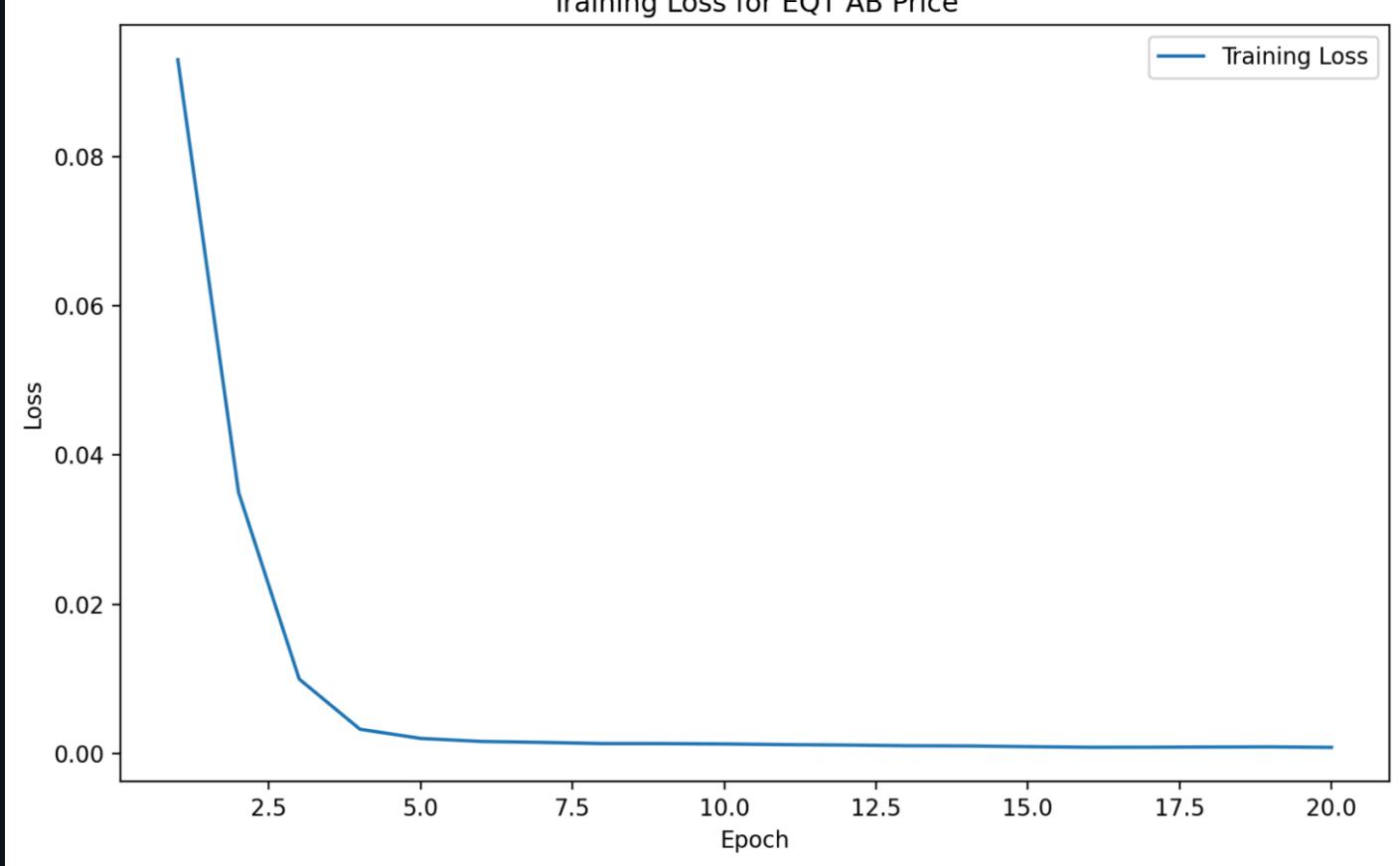
Epoch 16/20, Loss: 0.0008

Epoch 17/20, Loss: 0.0008

Epoch 18/20, Loss: 0.0009

Epoch 19/20, Loss: 0.0009

Epoch 20/20, Loss: 0.0008



Testing the Model for EQT AB Price

Performance Metrics for EQT AB Price

Mean Squared Error (MSE): 102.5004

Mean Absolute Error (MAE): 7.8257

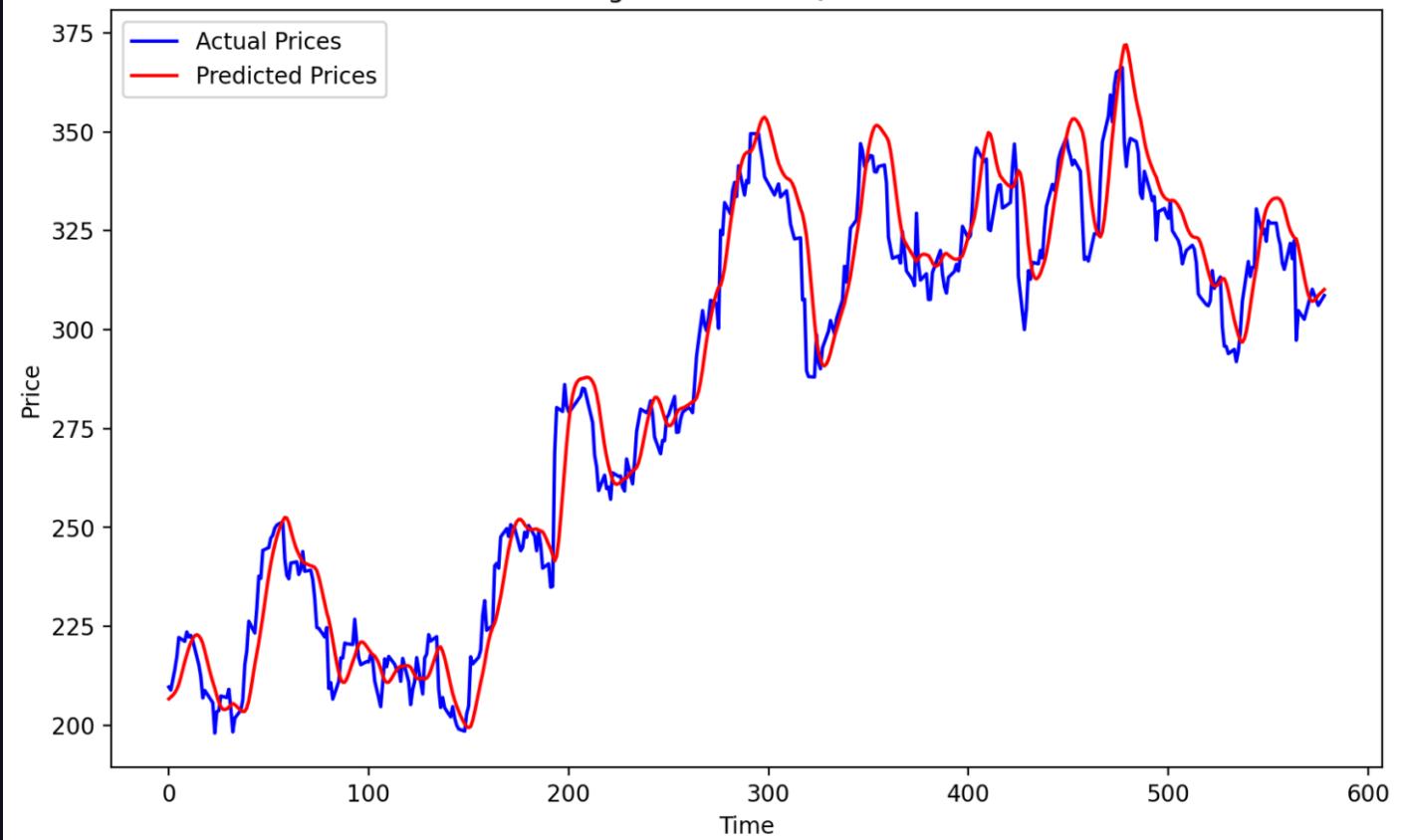
R-Squared (R2): 0.9562

Precision: 0.9723076923076923

Recall: 0.9905956112852664

F1 Score: 0.9813664596273292

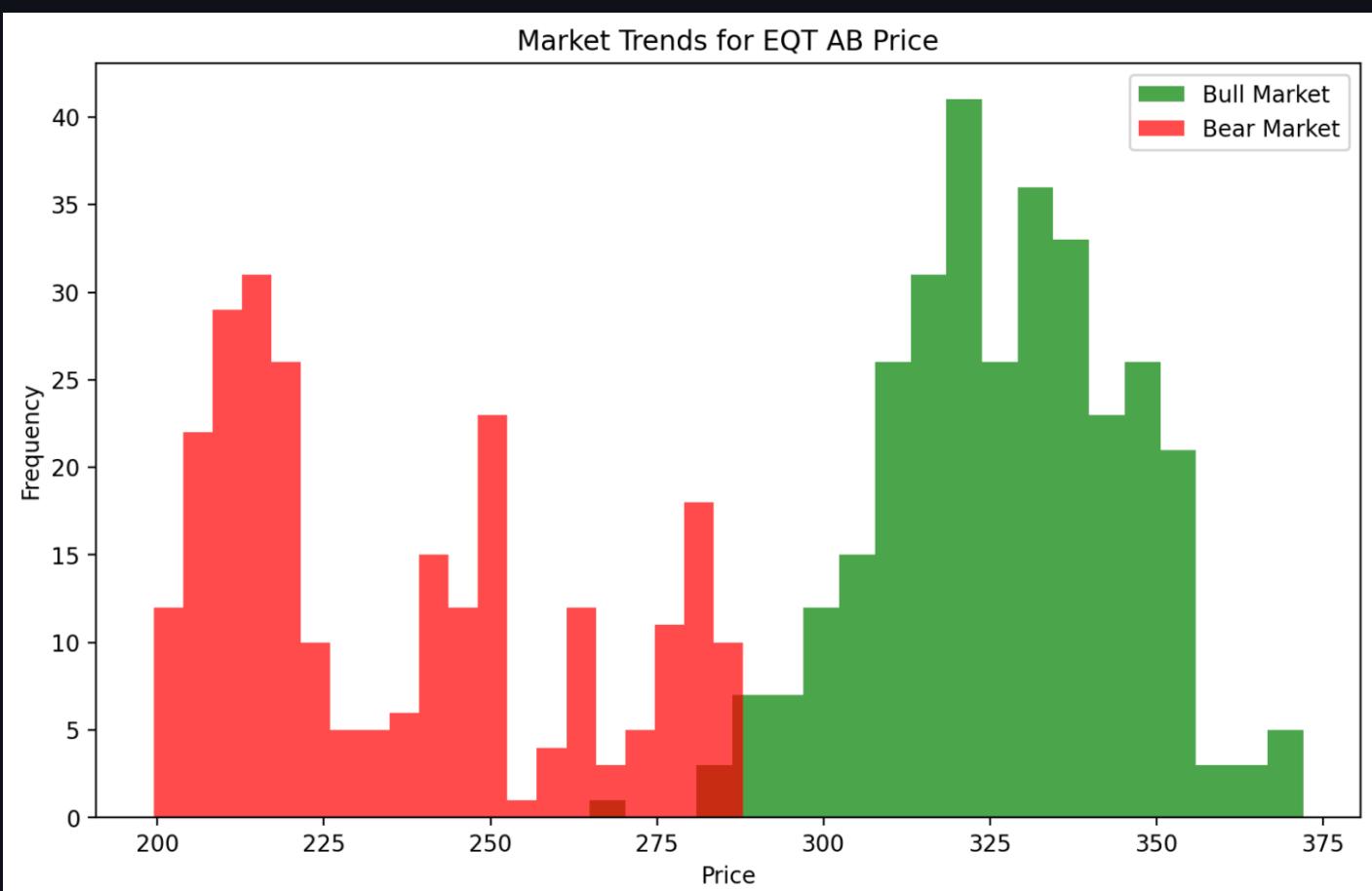
Testing Results for EQT AB Price



Market Trend Analysis for EQT AB Price

Bull Market Average Prediction: 327.0440

Bear Market Average Prediction: 235.8551



Processing Stock: Essity B Price

Train and test datasets prepared for Essity B Price.

Training the Model for Essity B Price

Epoch 1/20, Loss: 0.1375

Epoch 2/20, Loss: 0.0309

Epoch 3/20, Loss: 0.0069

Epoch 4/20, Loss: 0.0037

Epoch 5/20, Loss: 0.0029

Epoch 6/20, Loss: 0.0026

Epoch 7/20, Loss: 0.0025

Epoch 8/20, Loss: 0.0024

Epoch 9/20, Loss: 0.0023

Epoch 10/20, Loss: 0.0024

Epoch 11/20, Loss: 0.0022

Epoch 12/20, Loss: 0.0022

Epoch 13/20, Loss: 0.0021

Epoch 14/20, Loss: 0.0021

Epoch 15/20, Loss: 0.0020

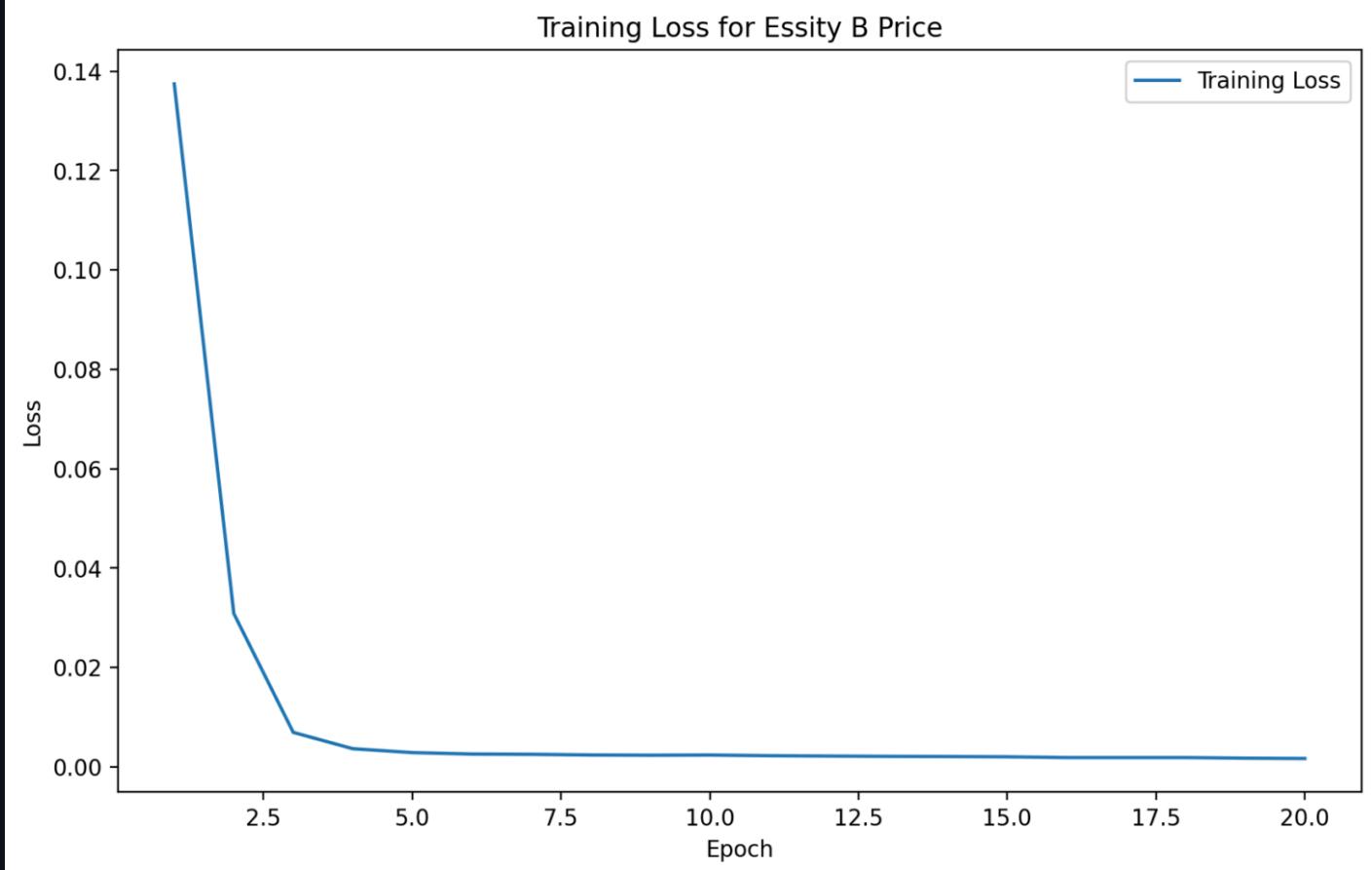
Epoch 16/20, Loss: 0.0019

Epoch 17/20, Loss: 0.0019

Epoch 18/20, Loss: 0.0019

Epoch 19/20, Loss: 0.0017

Epoch 20/20, Loss: 0.0017



Testing the Model for Essity B Price

Performance Metrics for Essity B Price

Mean Squared Error (MSE): 16.6073

Mean Absolute Error (MAE): 3.0353

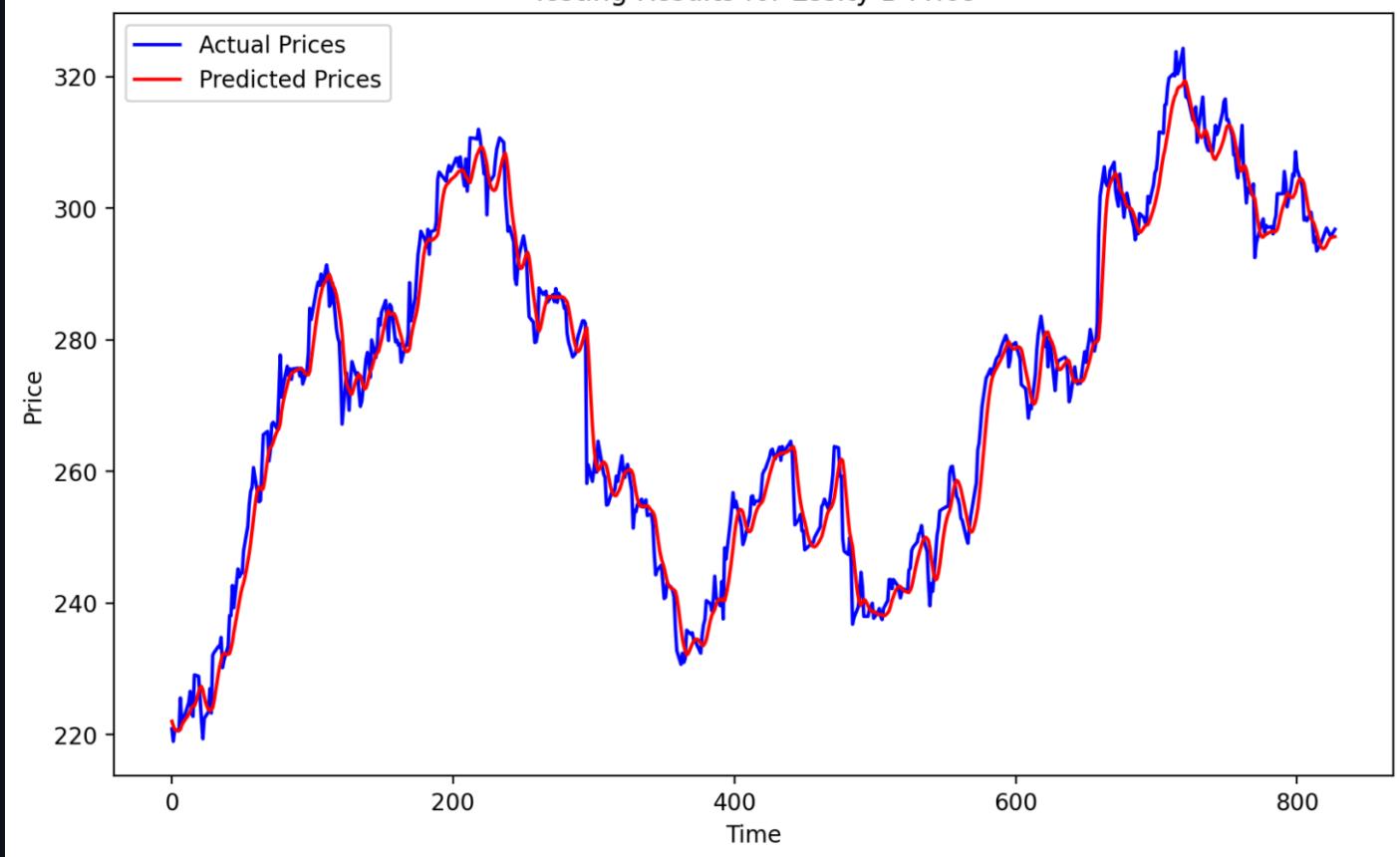
R-Squared (R²): 0.9748

Precision: 0.9596412556053812

Recall: 0.9661399548532731

F1 Score: 0.9628796400449944

Testing Results for Essity B Price



Market Trend Analysis for Essity B Price

Bull Market Average Prediction: 292.5172

Bear Market Average Prediction: 249.1785



Processing Stock: Evolution AB Price

Train and test datasets prepared for Evolution AB Price.

Training the Model for Evolution AB Price

Epoch 1/20, Loss: 0.0446

Epoch 2/20, Loss: 0.0028

Epoch 3/20, Loss: 0.0007

Epoch 4/20, Loss: 0.0006

Epoch 5/20, Loss: 0.0006

Epoch 6/20, Loss: 0.0006

Epoch 7/20, Loss: 0.0006

Epoch 8/20, Loss: 0.0006

Epoch 9/20, Loss: 0.0005

Epoch 10/20, Loss: 0.0005

Epoch 11/20, Loss: 0.0006

Epoch 12/20, Loss: 0.0006

Epoch 13/20, Loss: 0.0005

Epoch 14/20, Loss: 0.0005

Epoch 15/20, Loss: 0.0004

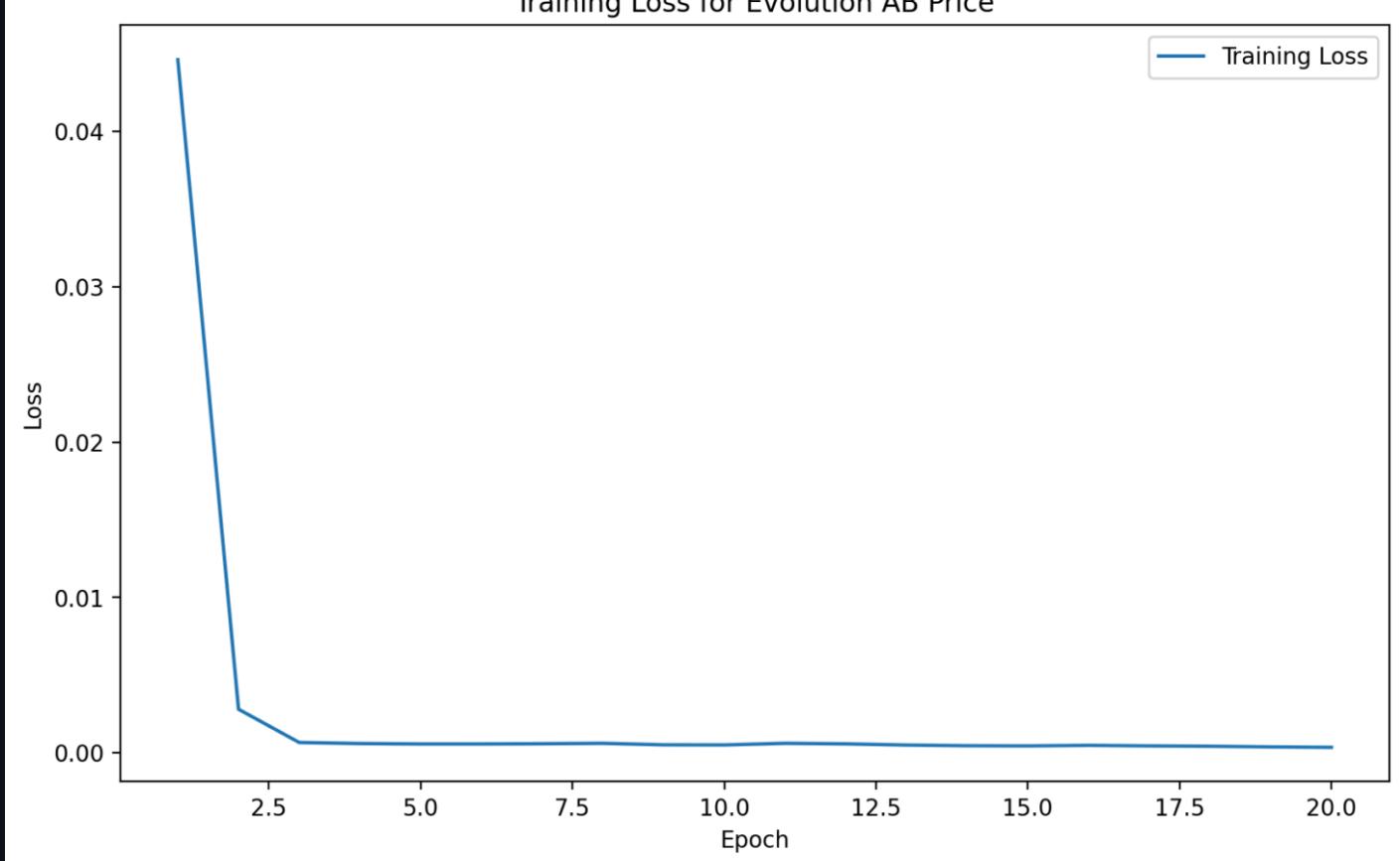
Epoch 16/20, Loss: 0.0005

Epoch 17/20, Loss: 0.0004

Epoch 18/20, Loss: 0.0004

Epoch 19/20, Loss: 0.0004

Epoch 20/20, Loss: 0.0003



Testing the Model for Evolution AB Price

Performance Metrics for Evolution AB Price

Mean Squared Error (MSE): 1031.3220

Mean Absolute Error (MAE): 24.2941

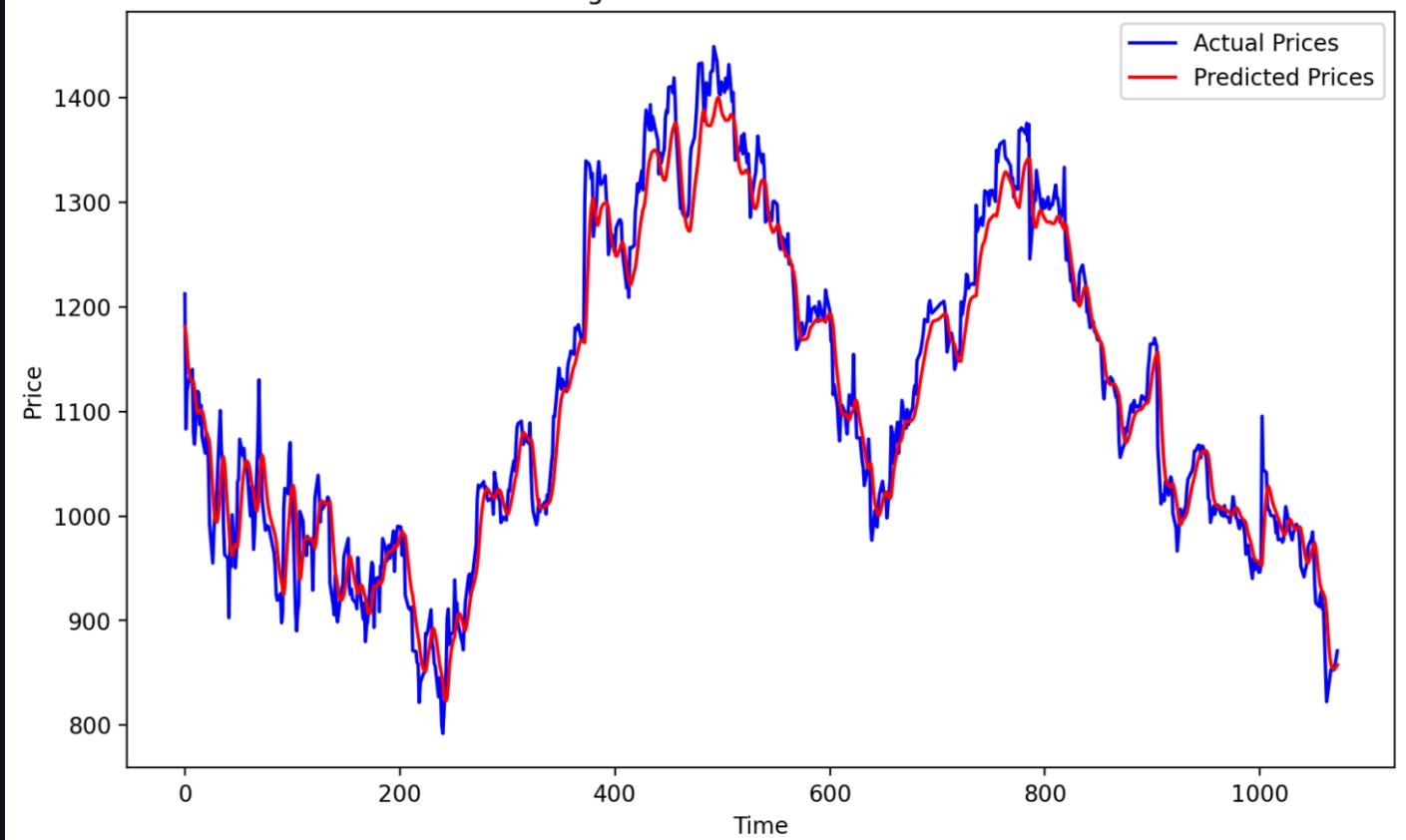
R-Squared (R²): 0.9575

Precision: 0.9722222222222222

Recall: 0.9619450317124736

F1 Score: 0.9670563230605739

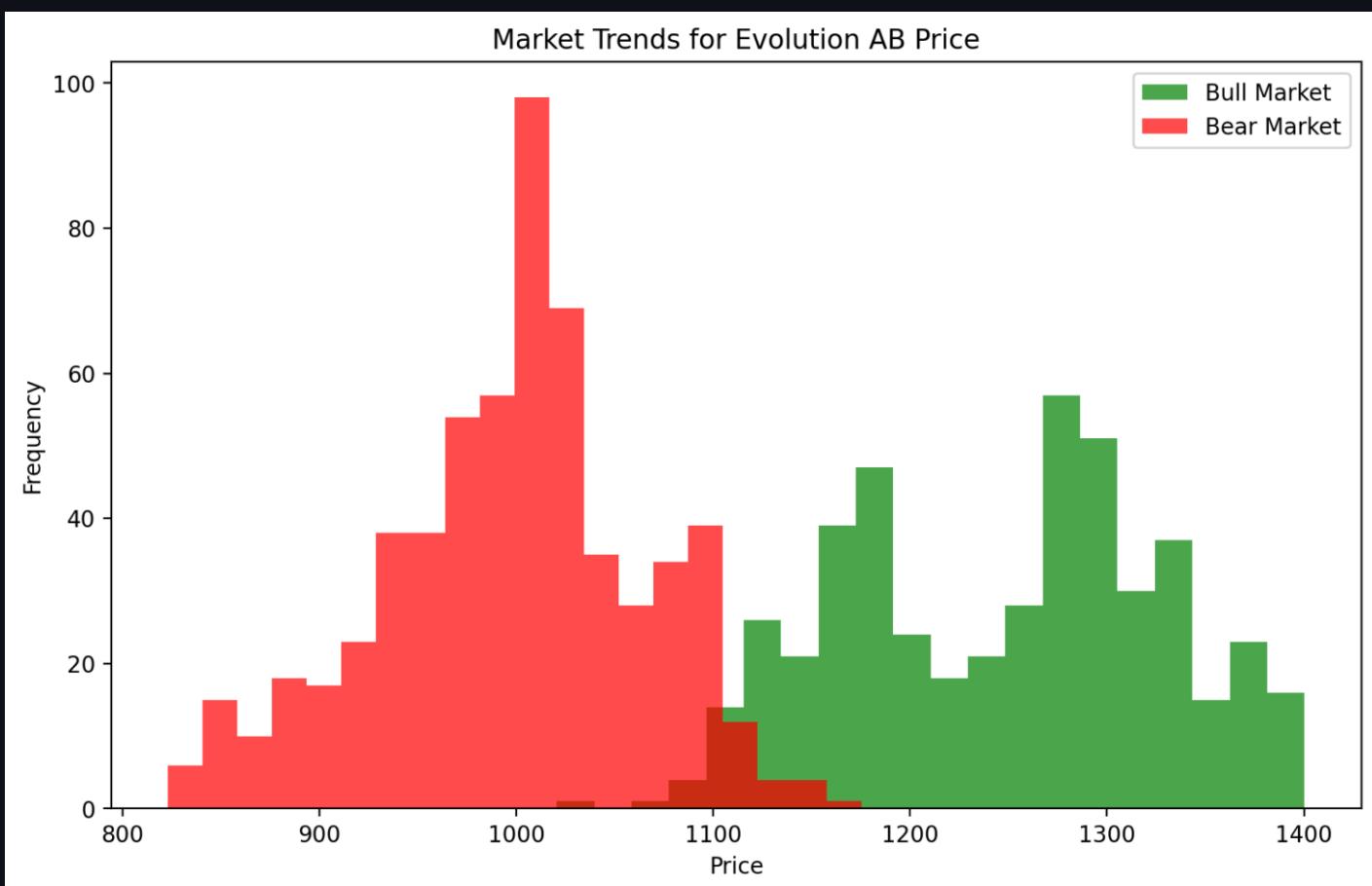
Testing Results for Evolution AB Price



Market Trend Analysis for Evolution AB Price

Bull Market Average Prediction: 1247.4731

Bear Market Average Prediction: 997.6405



Processing Stock: Genmab Price

Train and test datasets prepared for Genmab Price.

Training the Model for Genmab Price

Epoch 1/20, Loss: 0.0791

Epoch 2/20, Loss: 0.0073

Epoch 3/20, Loss: 0.0013

Epoch 4/20, Loss: 0.0008

Epoch 5/20, Loss: 0.0006

Epoch 6/20, Loss: 0.0006

Epoch 7/20, Loss: 0.0005

Epoch 8/20, Loss: 0.0005

Epoch 9/20, Loss: 0.0004

Epoch 10/20, Loss: 0.0004

Epoch 11/20, Loss: 0.0004

Epoch 12/20, Loss: 0.0004

Epoch 13/20, Loss: 0.0004

Epoch 14/20, Loss: 0.0004

Epoch 15/20, Loss: 0.0003

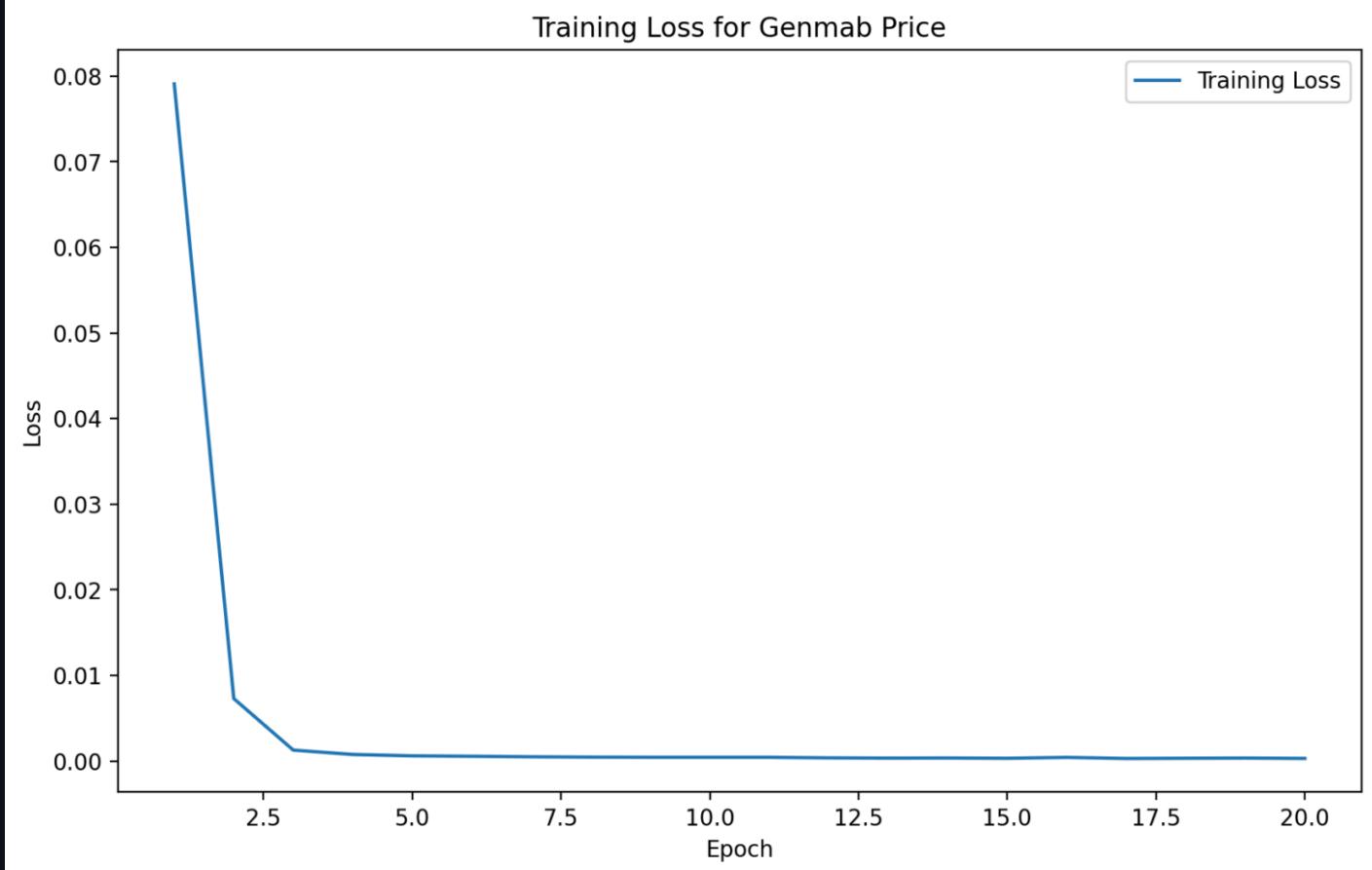
Epoch 16/20, Loss: 0.0004

Epoch 17/20, Loss: 0.0003

Epoch 18/20, Loss: 0.0003

Epoch 19/20, Loss: 0.0004

Epoch 20/20, Loss: 0.0003



Testing the Model for Genmab Price

Performance Metrics for Genmab Price

Mean Squared Error (MSE): 3850.8286

Mean Absolute Error (MAE): 45.9924

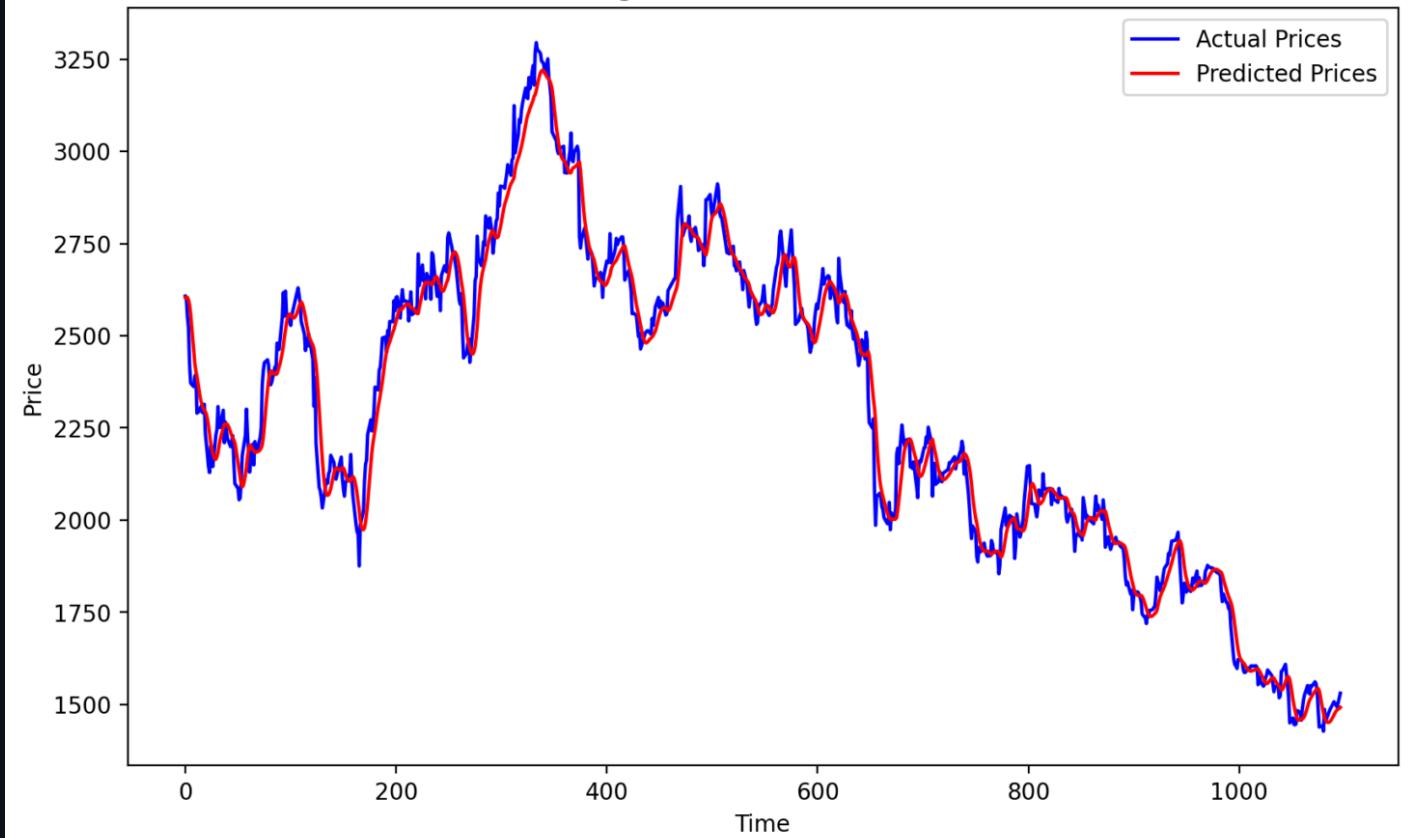
R-Squared (R²): 0.9792

Precision: 0.9722735674676525

Recall: 0.9813432835820896

F1 Score: 0.9767873723305478

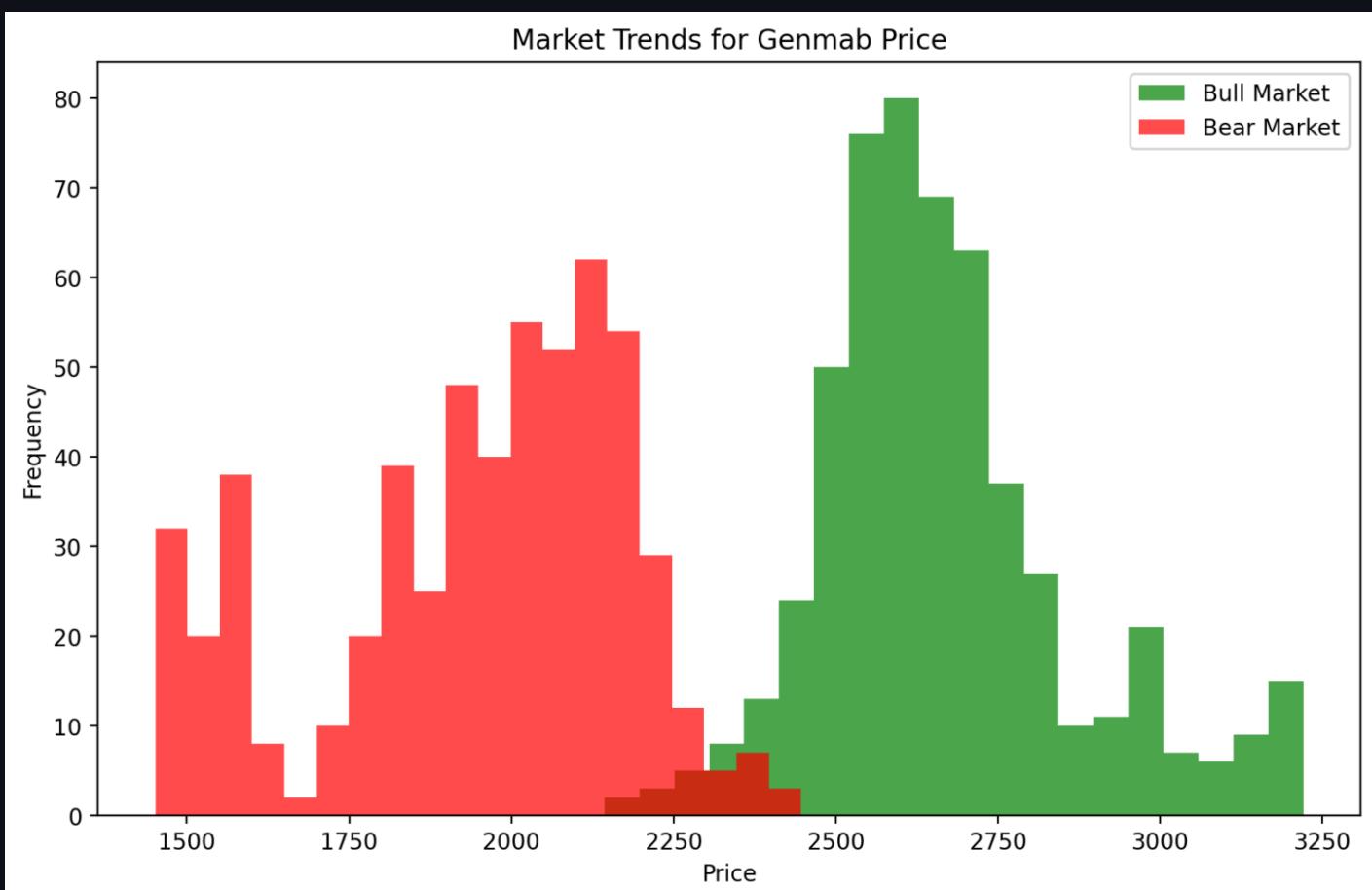
Testing Results for Genmab Price



Market Trend Analysis for Genmab Price

Bull Market Average Prediction: 2665.3179

Bear Market Average Prediction: 1944.3248



Processing Stock: H&M B Price

Train and test datasets prepared for H&M B Price.

Training the Model for H&M B Price

Epoch 1/20, Loss: 0.0936

Epoch 2/20, Loss: 0.0161

Epoch 3/20, Loss: 0.0021

Epoch 4/20, Loss: 0.0013

Epoch 5/20, Loss: 0.0011

Epoch 6/20, Loss: 0.0009

Epoch 7/20, Loss: 0.0008

Epoch 8/20, Loss: 0.0008

Epoch 9/20, Loss: 0.0007

Epoch 10/20, Loss: 0.0007

Epoch 11/20, Loss: 0.0007

Epoch 12/20, Loss: 0.0007

Epoch 13/20, Loss: 0.0006

Epoch 14/20, Loss: 0.0005

Epoch 15/20, Loss: 0.0006

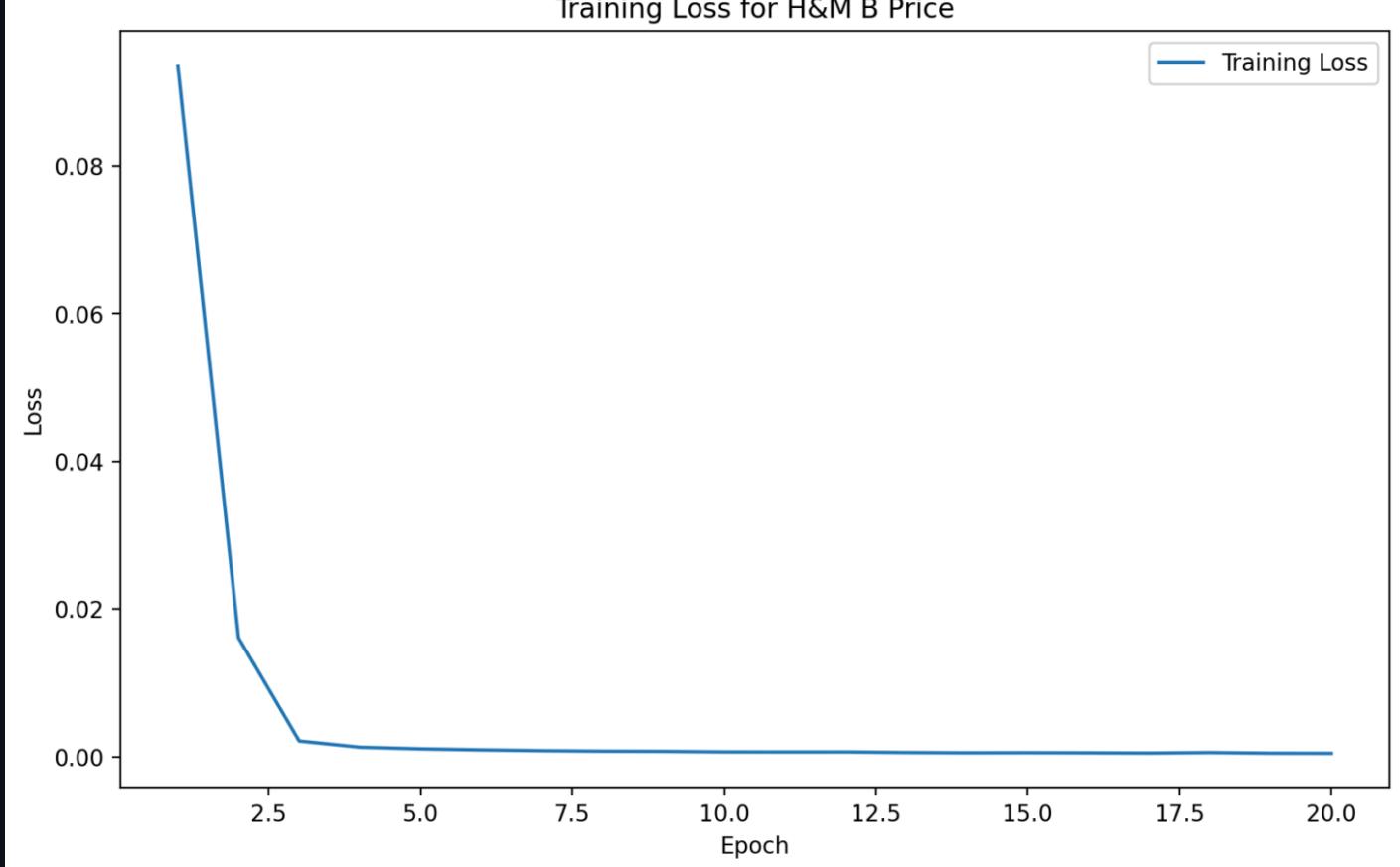
Epoch 16/20, Loss: 0.0005

Epoch 17/20, Loss: 0.0005

Epoch 18/20, Loss: 0.0006

Epoch 19/20, Loss: 0.0005

Epoch 20/20, Loss: 0.0005



Testing the Model for H&M B Price

Performance Metrics for H&M B Price

Mean Squared Error (MSE): 30.3689

Mean Absolute Error (MAE): 4.0445

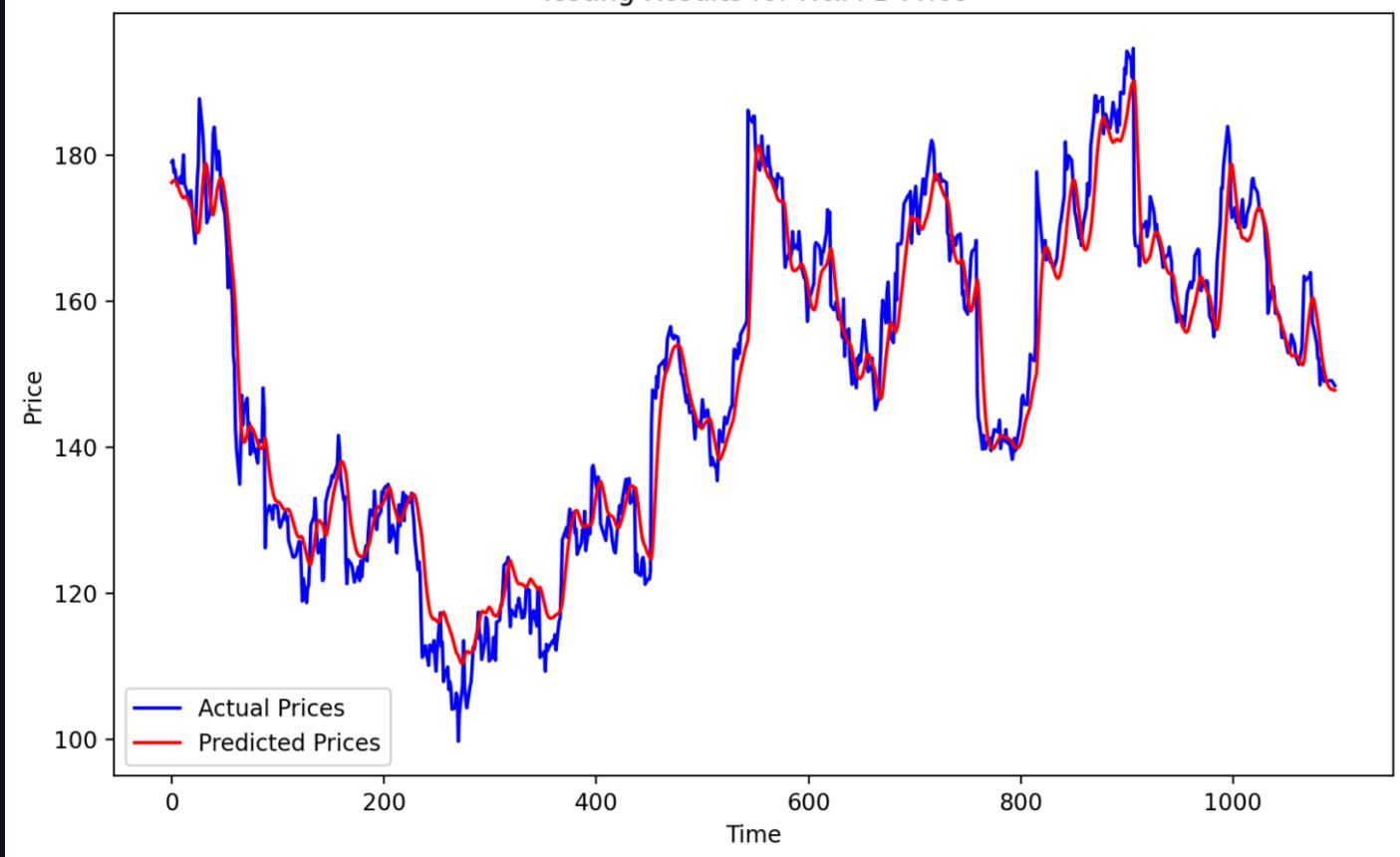
R-Squared (R²): 0.9391

Precision: 0.96

Recall: 0.9550173010380623

F1 Score: 0.9575021682567216

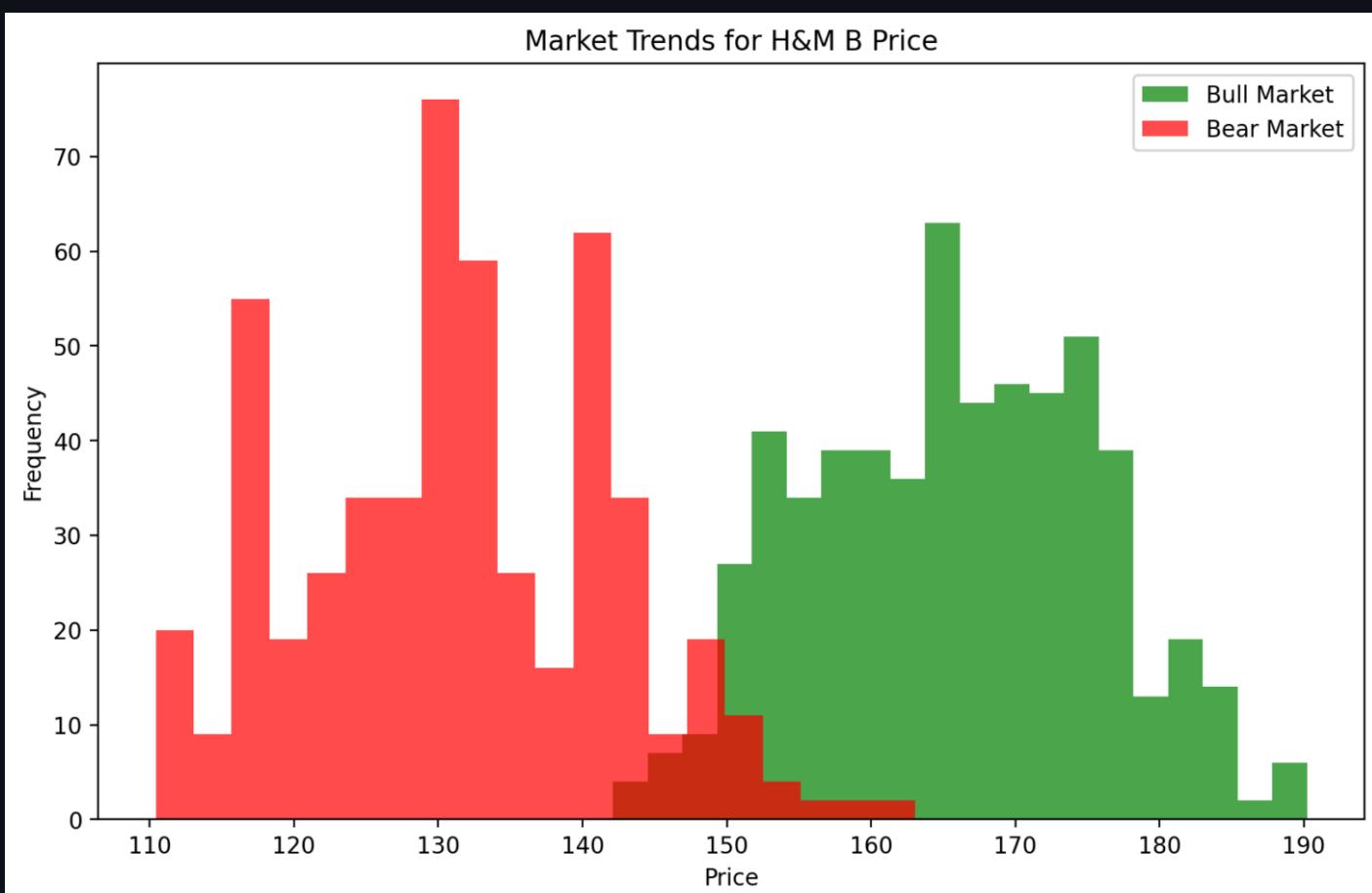
Testing Results for H&M B Price



Market Trend Analysis for H&M B Price

Bull Market Average Prediction: 165.6988

Bear Market Average Prediction: 131.2284



Processing Stock: Hexagon B Price

Train and test datasets prepared for Hexagon B Price.

Training the Model for Hexagon B Price

Epoch 1/20, Loss: 0.0967

Epoch 2/20, Loss: 0.0101

Epoch 3/20, Loss: 0.0024

Epoch 4/20, Loss: 0.0020

Epoch 5/20, Loss: 0.0019

Epoch 6/20, Loss: 0.0018

Epoch 7/20, Loss: 0.0016

Epoch 8/20, Loss: 0.0015

Epoch 9/20, Loss: 0.0013

Epoch 10/20, Loss: 0.0013

Epoch 11/20, Loss: 0.0013

Epoch 12/20, Loss: 0.0012

Epoch 13/20, Loss: 0.0010

Epoch 14/20, Loss: 0.0011

Epoch 15/20, Loss: 0.0011

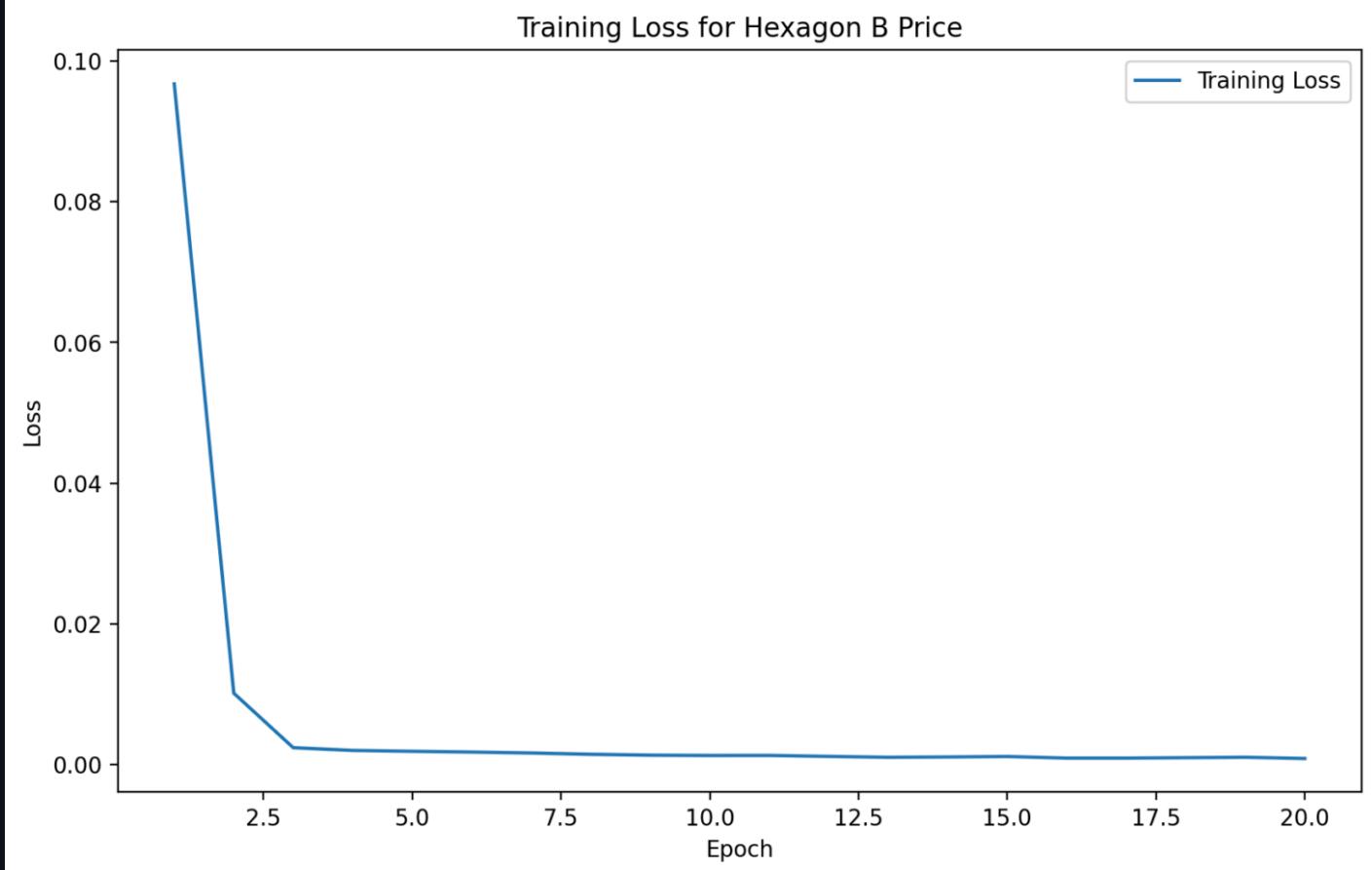
Epoch 16/20, Loss: 0.0009

Epoch 17/20, Loss: 0.0009

Epoch 18/20, Loss: 0.0010

Epoch 19/20, Loss: 0.0010

Epoch 20/20, Loss: 0.0009



Testing the Model for Hexagon B Price

Performance Metrics for Hexagon B Price

Mean Squared Error (MSE): 12.5866

Mean Absolute Error (MAE): 2.8107

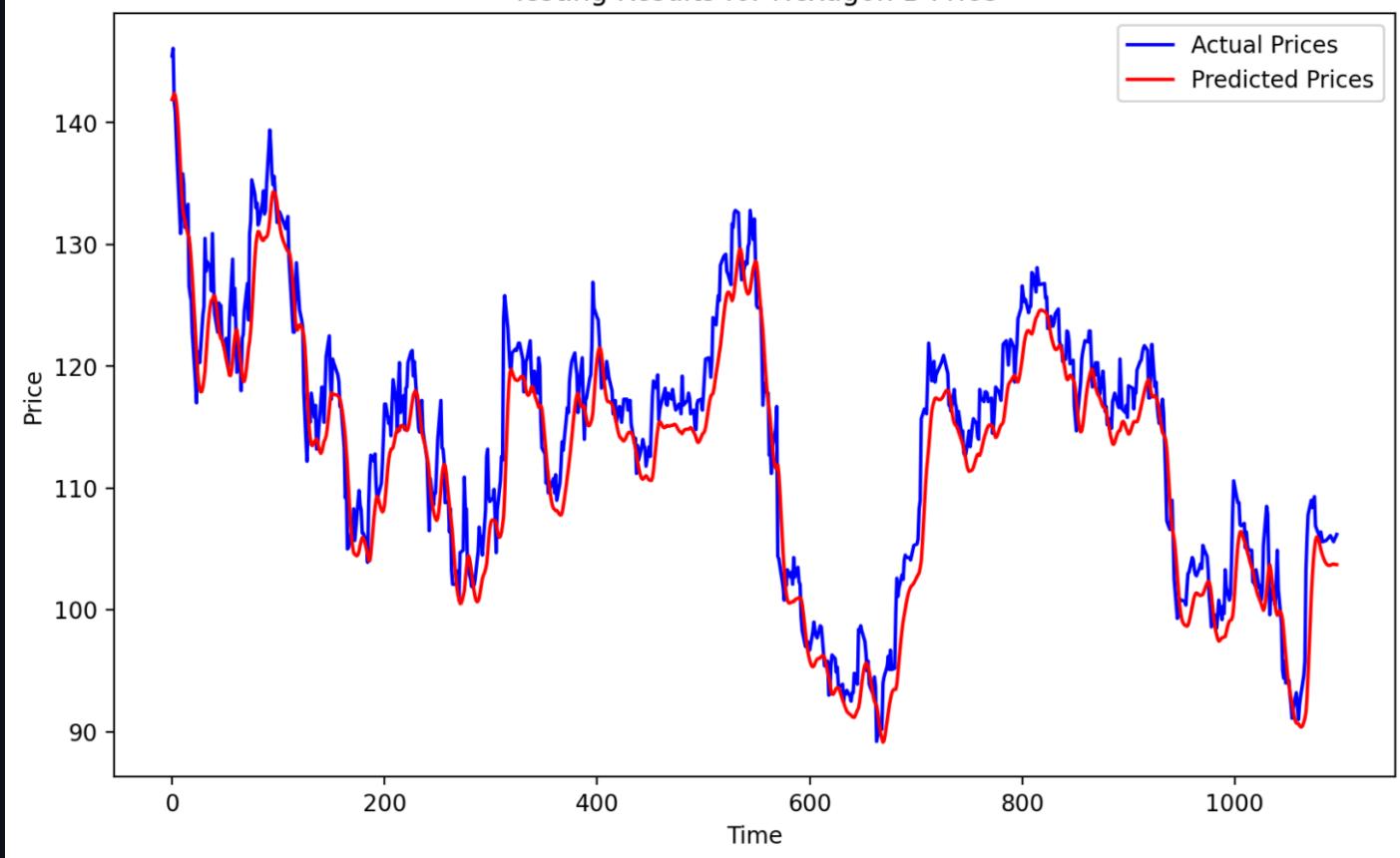
R-Squared (R²): 0.8880

Precision: 0.9790209790209791

Recall: 0.8763693270735524

F1 Score: 0.9248554913294798

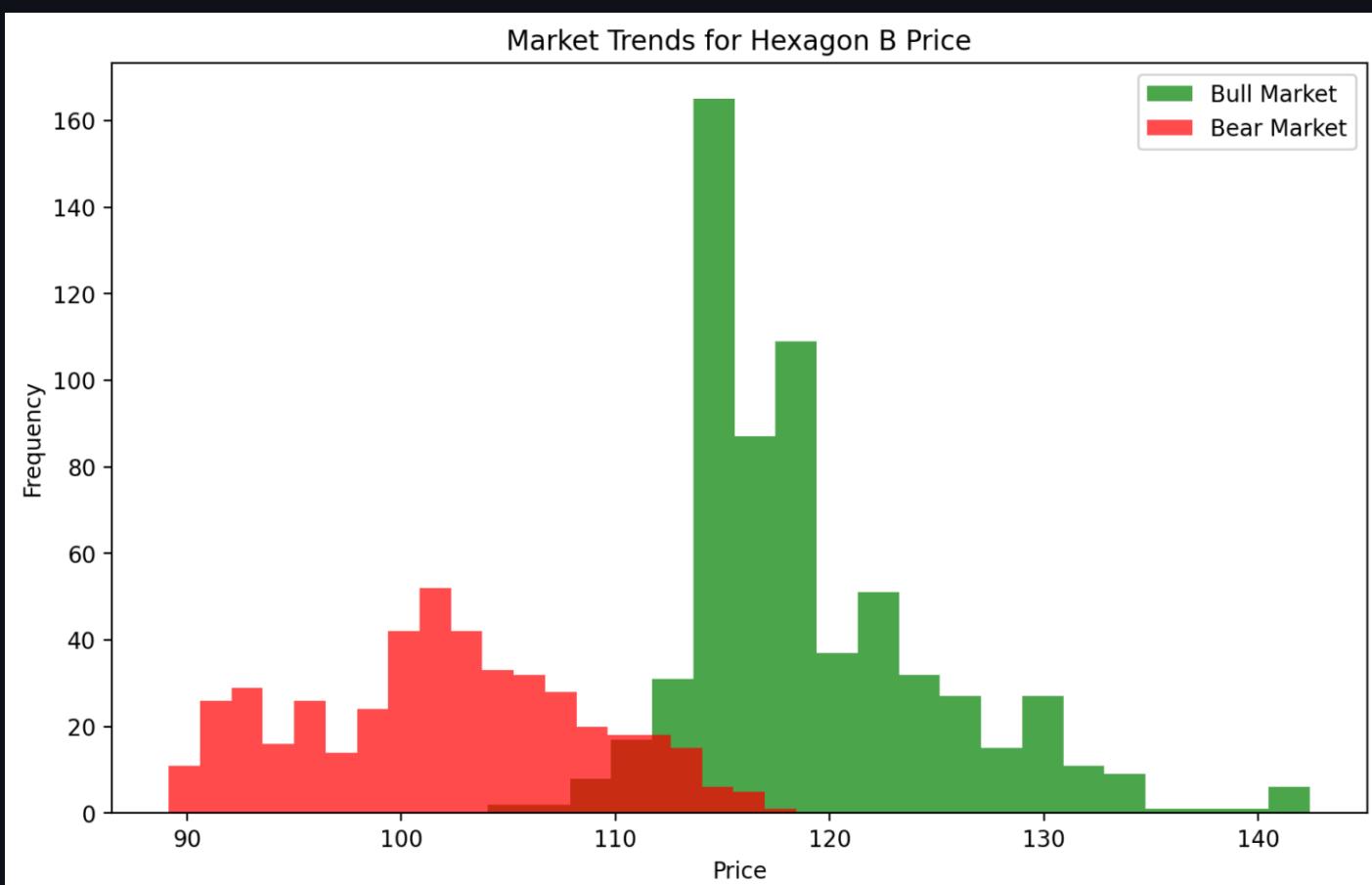
Testing Results for Hexagon B Price



Market Trend Analysis for Hexagon B Price

Bull Market Average Prediction: 119.0500

Bear Market Average Prediction: 102.0149



Processing Stock: Investor B Price

Train and test datasets prepared for Investor B Price.

Training the Model for Investor B Price

Epoch 1/20, Loss: 0.0352

Epoch 2/20, Loss: 0.0073

Epoch 3/20, Loss: 0.0004

Epoch 4/20, Loss: 0.0002

Epoch 5/20, Loss: 0.0001

Epoch 6/20, Loss: 0.0001

Epoch 7/20, Loss: 0.0001

Epoch 8/20, Loss: 0.0001

Epoch 9/20, Loss: 0.0001

Epoch 10/20, Loss: 0.0001

Epoch 11/20, Loss: 0.0001

Epoch 12/20, Loss: 0.0001

Epoch 13/20, Loss: 0.0001

Epoch 14/20, Loss: 0.0002

Epoch 15/20, Loss: 0.0001

Epoch 16/20, Loss: 0.0001

Epoch 17/20, Loss: 0.0001

Epoch 18/20, Loss: 0.0001

Epoch 19/20, Loss: 0.0001

Epoch 20/20, Loss: 0.0001



Testing the Model for Investor B Price

Performance Metrics for Investor B Price

Mean Squared Error (MSE): 81.0535

Mean Absolute Error (MAE): 6.9756

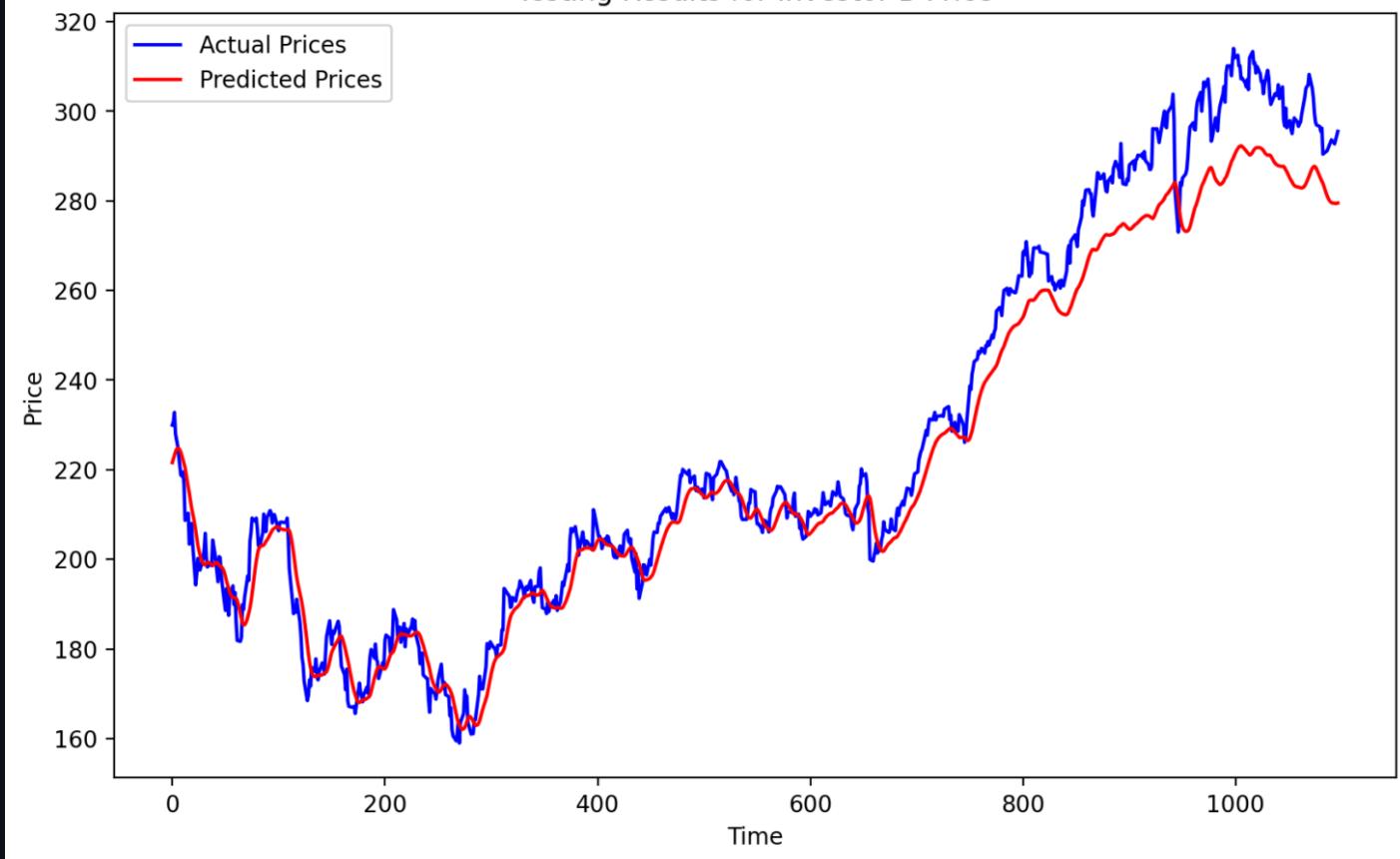
R-Squared (R²): 0.9577

Precision: 0.9973262032085561

Recall: 0.951530612244898

F1 Score: 0.9738903394255874

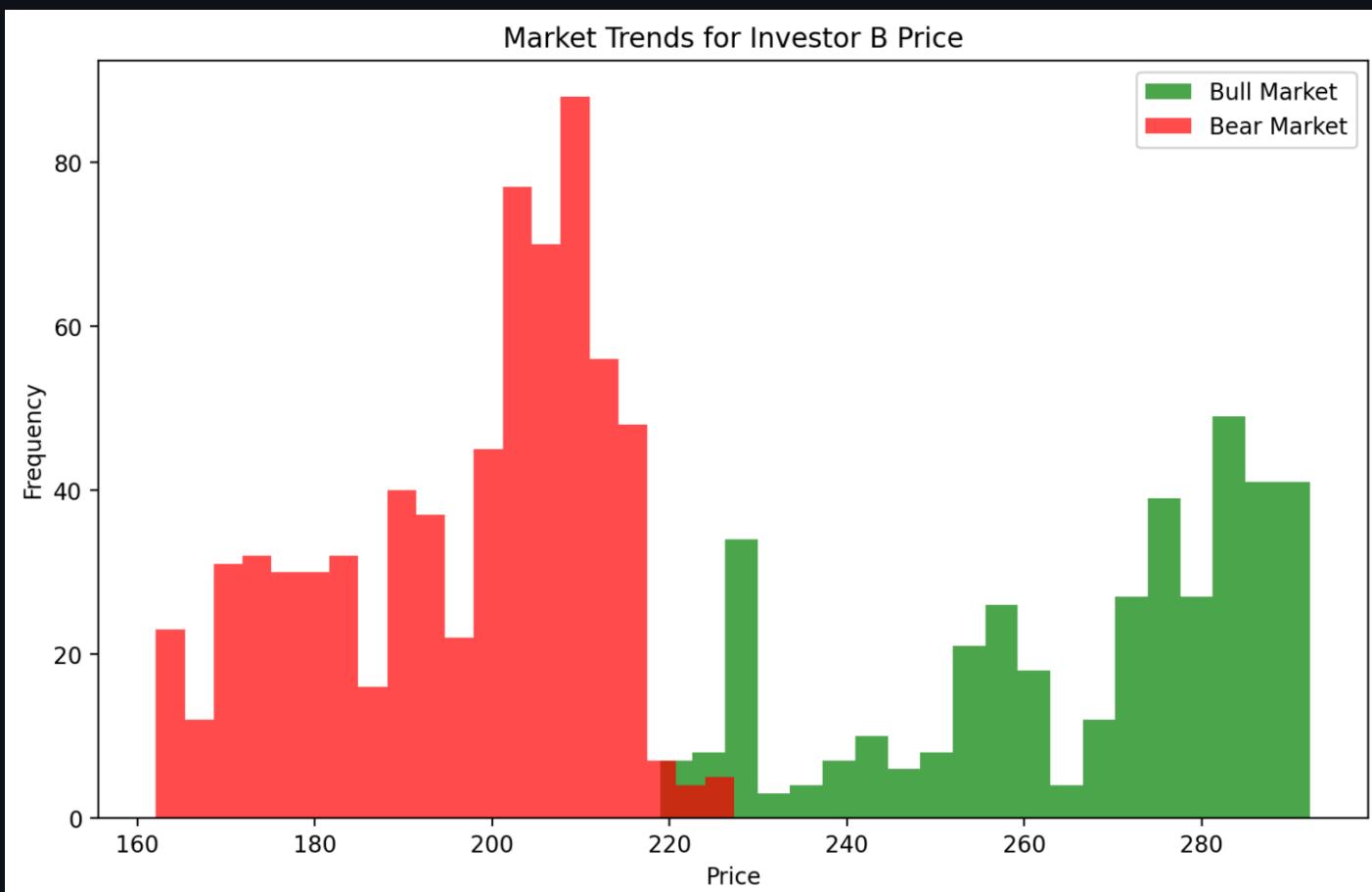
Testing Results for Investor B Price



Market Trend Analysis for Investor B Price

Bull Market Average Prediction: 266.7037

Bear Market Average Prediction: 196.3364



Processing Stock: KONE Oyj Price

Train and test datasets prepared for KONE Oyj Price.

Training the Model for KONE Oyj Price

Epoch 1/20, Loss: 0.0569

Epoch 2/20, Loss: 0.0050

Epoch 3/20, Loss: 0.0013

Epoch 4/20, Loss: 0.0009

Epoch 5/20, Loss: 0.0008

Epoch 6/20, Loss: 0.0008

Epoch 7/20, Loss: 0.0008

Epoch 8/20, Loss: 0.0007

Epoch 9/20, Loss: 0.0007

Epoch 10/20, Loss: 0.0007

Epoch 11/20, Loss: 0.0007

Epoch 12/20, Loss: 0.0007

Epoch 13/20, Loss: 0.0006

Epoch 14/20, Loss: 0.0006

Epoch 15/20, Loss: 0.0006

Epoch 16/20, Loss: 0.0006

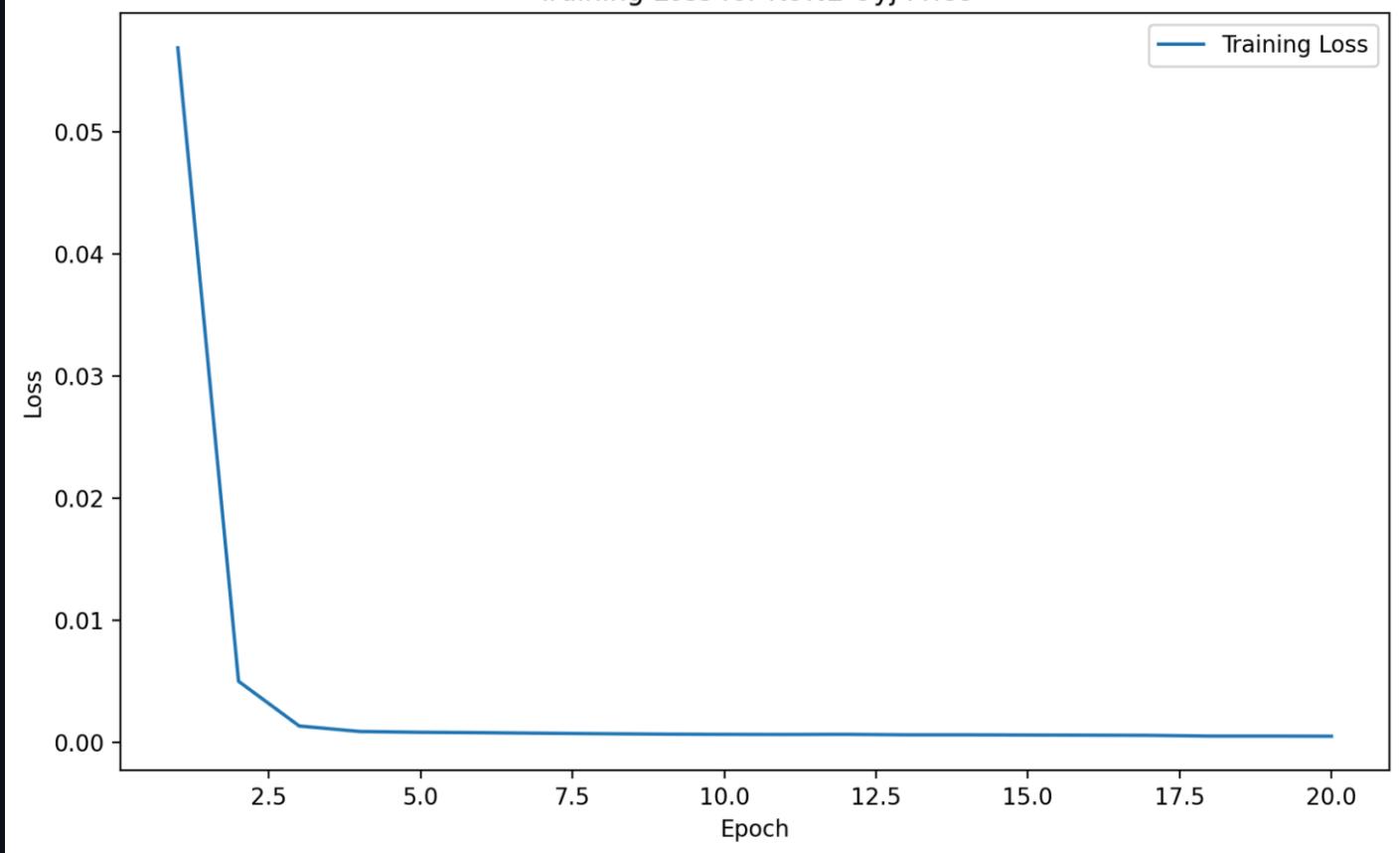
Epoch 17/20, Loss: 0.0006

Epoch 18/20, Loss: 0.0005

Epoch 19/20, Loss: 0.0005

Epoch 20/20, Loss: 0.0005

Training Loss for KONE Oyj Price



Testing the Model for KONE Oyj Price

Performance Metrics for KONE Oyj Price

Mean Squared Error (MSE): 1.0494

Mean Absolute Error (MAE): 0.7658

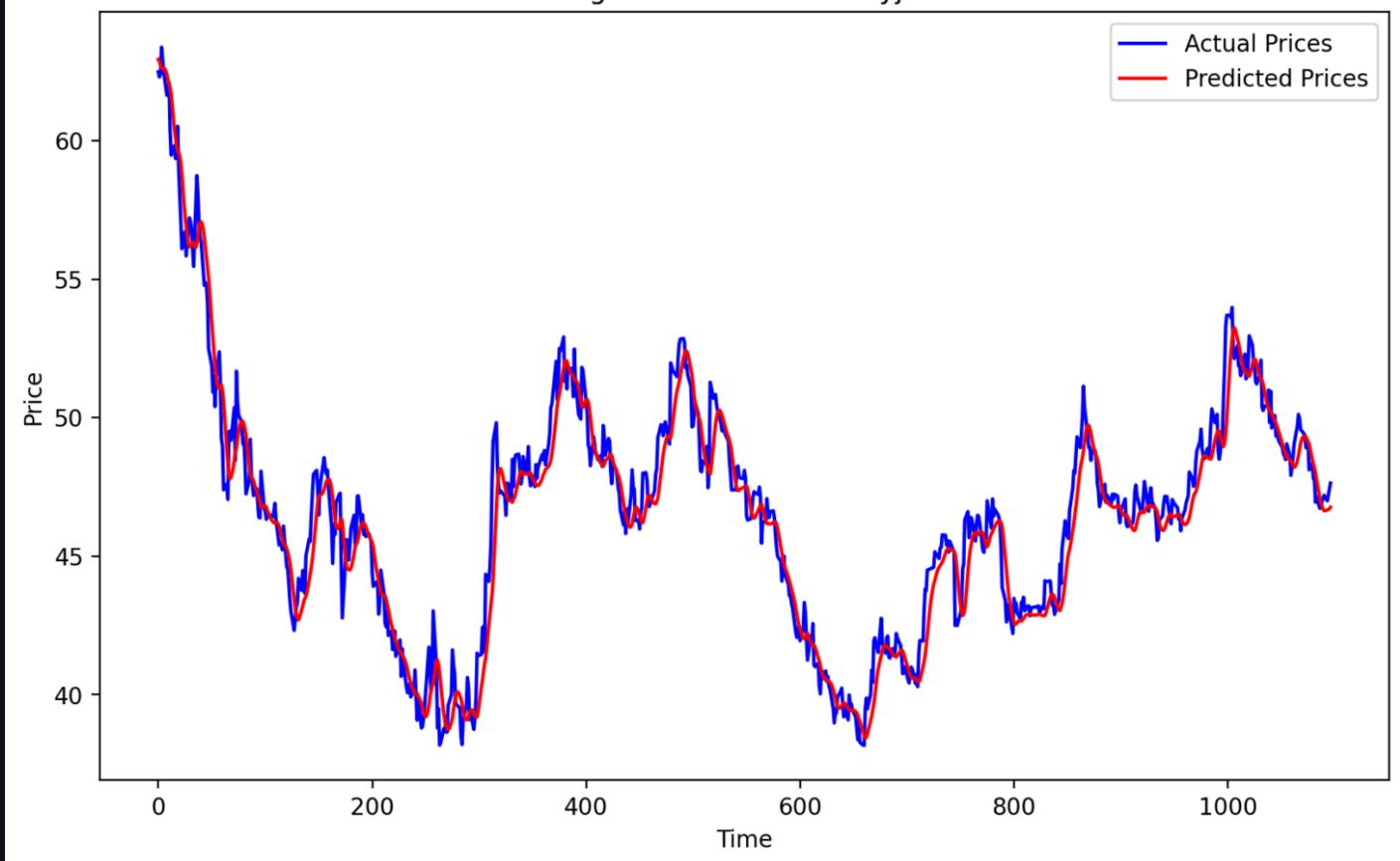
R-Squared (R²): 0.9450

Precision: 0.9473684210526315

Recall: 0.8674698795180723

F1 Score: 0.9056603773584906

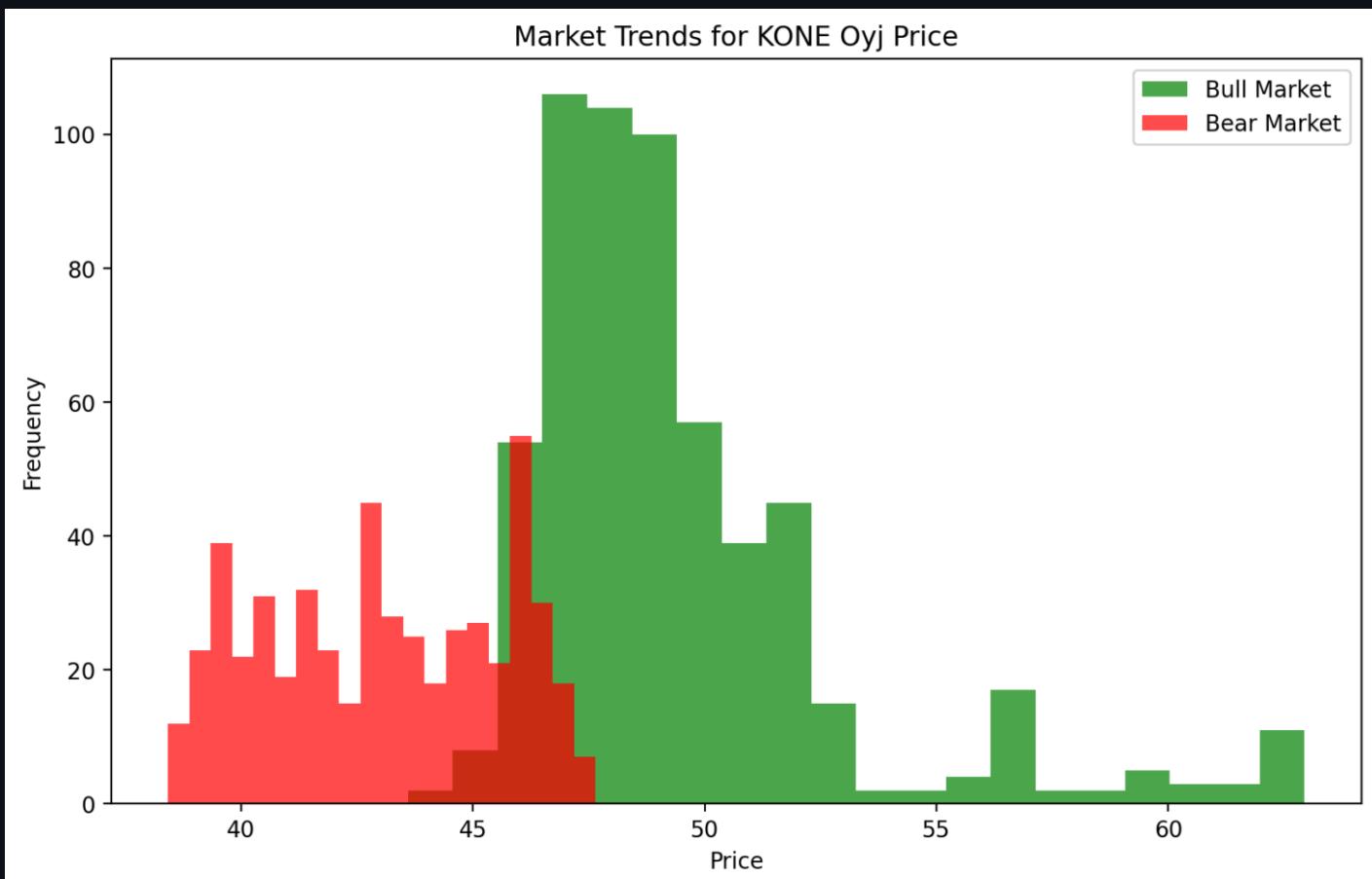
Testing Results for KONE Oyj Price



Market Trend Analysis for KONE Oyj Price

Bull Market Average Prediction: 49.4385

Bear Market Average Prediction: 43.0454



Processing Stock: LM Ericsson B Price

Train and test datasets prepared for LM Ericsson B Price.

Training the Model for LM Ericsson B Price

Epoch 1/20, Loss: 0.0660

Epoch 2/20, Loss: 0.0069

Epoch 3/20, Loss: 0.0016

Epoch 4/20, Loss: 0.0014

Epoch 5/20, Loss: 0.0013

Epoch 6/20, Loss: 0.0012

Epoch 7/20, Loss: 0.0012

Epoch 8/20, Loss: 0.0011

Epoch 9/20, Loss: 0.0011

Epoch 10/20, Loss: 0.0011

Epoch 11/20, Loss: 0.0010

Epoch 12/20, Loss: 0.0010

Epoch 13/20, Loss: 0.0009

Epoch 14/20, Loss: 0.0009

Epoch 15/20, Loss: 0.0009

Epoch 16/20, Loss: 0.0008

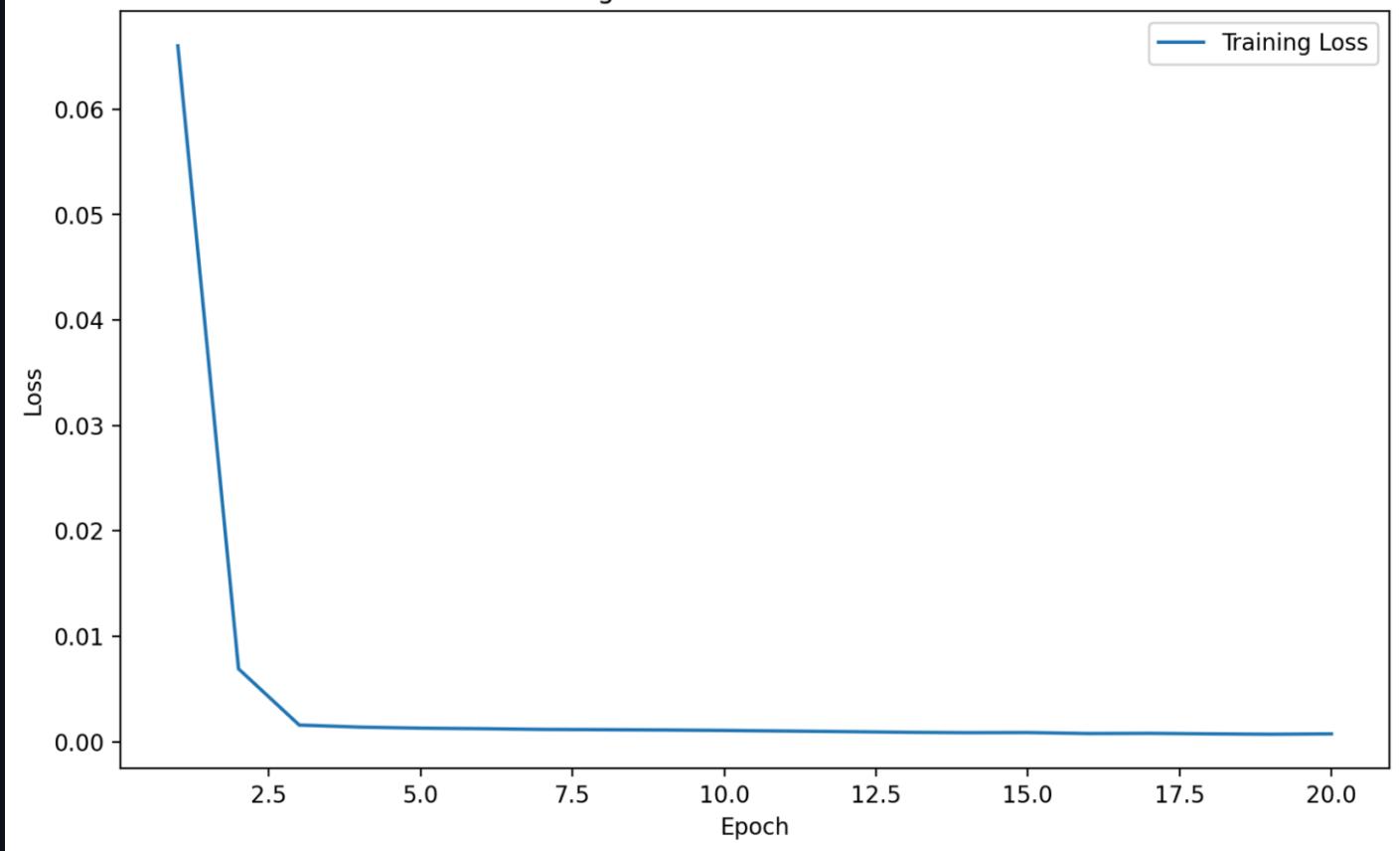
Epoch 17/20, Loss: 0.0008

Epoch 18/20, Loss: 0.0007

Epoch 19/20, Loss: 0.0007

Epoch 20/20, Loss: 0.0007

Training Loss for LM Ericsson B Price



Testing the Model for LM Ericsson B Price

Performance Metrics for LM Ericsson B Price

Mean Squared Error (MSE): 3.7358

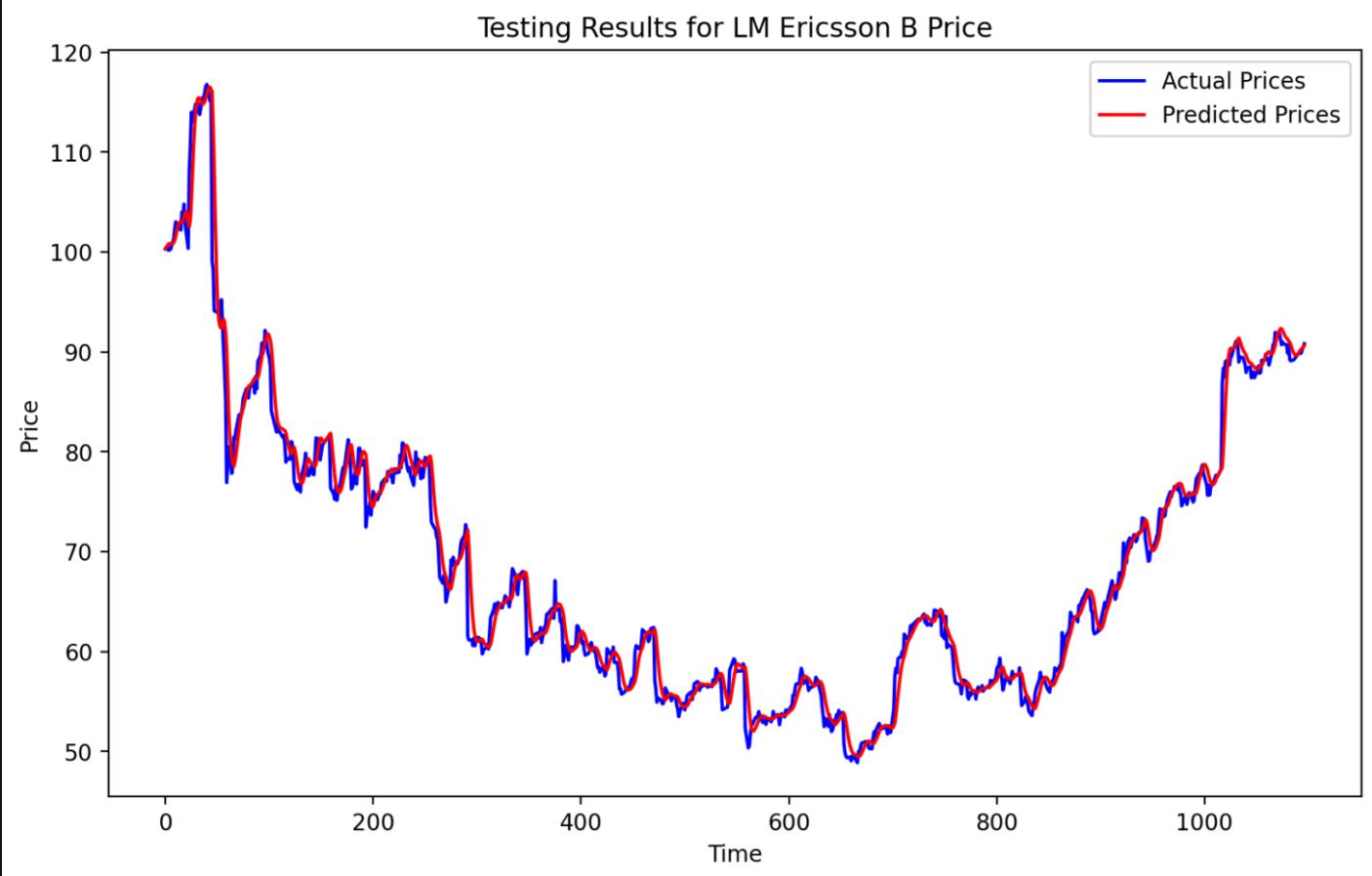
Mean Absolute Error (MAE): 1.1532

R-Squared (R²): 0.9819

Precision: 0.986784140969163

Recall: 0.986784140969163

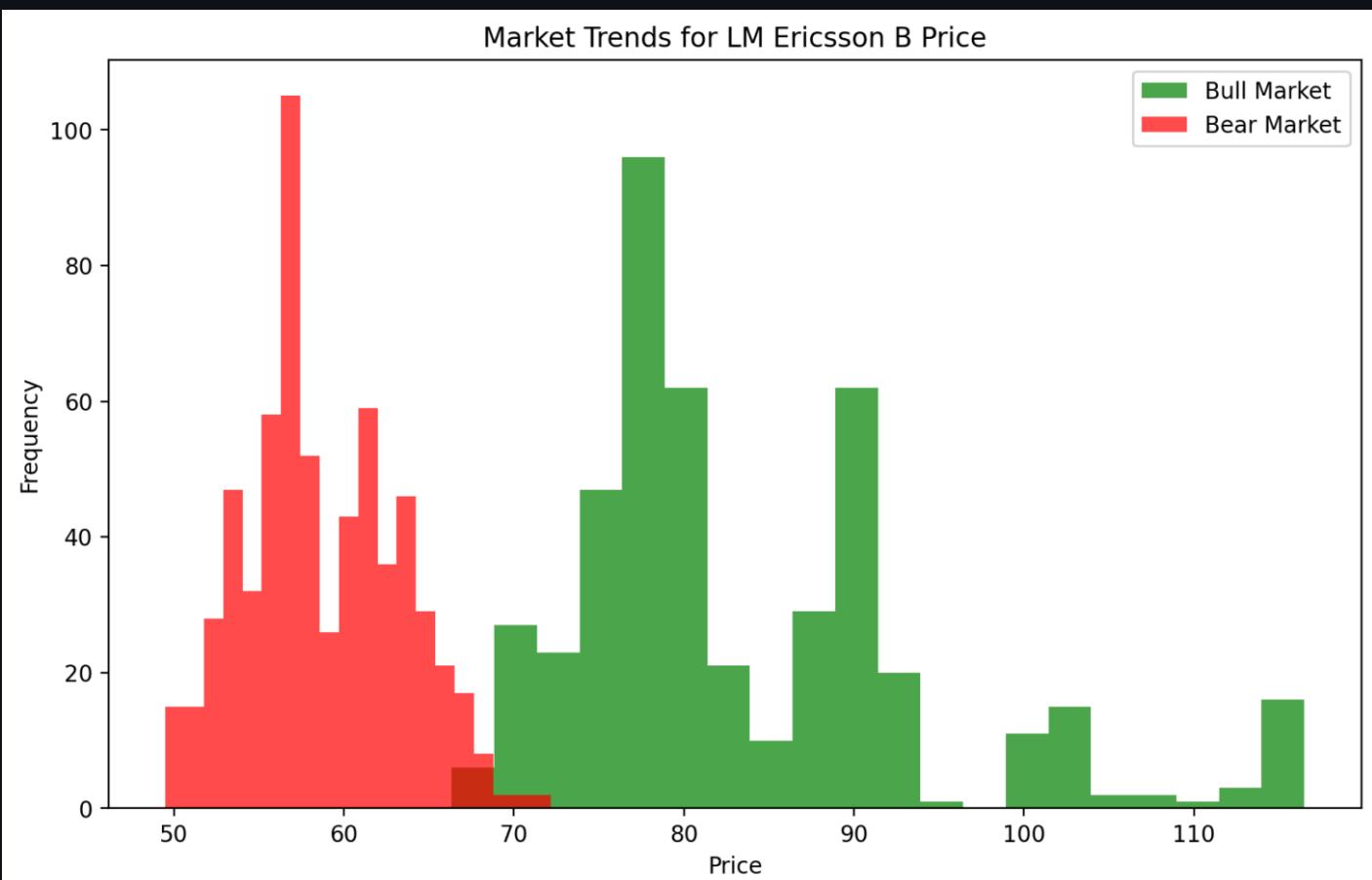
F1 Score: 0.986784140969163



Market Trend Analysis for LM Ericsson B Price

Bull Market Average Prediction: 83.6316

Bear Market Average Prediction: 58.7387



Processing Stock: Moller Maersk B Price

Train and test datasets prepared for Moller Maersk B Price.

Training the Model for Moller Maersk B Price

Epoch 1/20, Loss: 0.0297

Epoch 2/20, Loss: 0.0033

Epoch 3/20, Loss: 0.0007

Epoch 4/20, Loss: 0.0005

Epoch 5/20, Loss: 0.0005

Epoch 6/20, Loss: 0.0005

Epoch 7/20, Loss: 0.0005

Epoch 8/20, Loss: 0.0005

Epoch 9/20, Loss: 0.0004

Epoch 10/20, Loss: 0.0004

Epoch 11/20, Loss: 0.0004

Epoch 12/20, Loss: 0.0004

Epoch 13/20, Loss: 0.0004

Epoch 14/20, Loss: 0.0004

Epoch 15/20, Loss: 0.0003

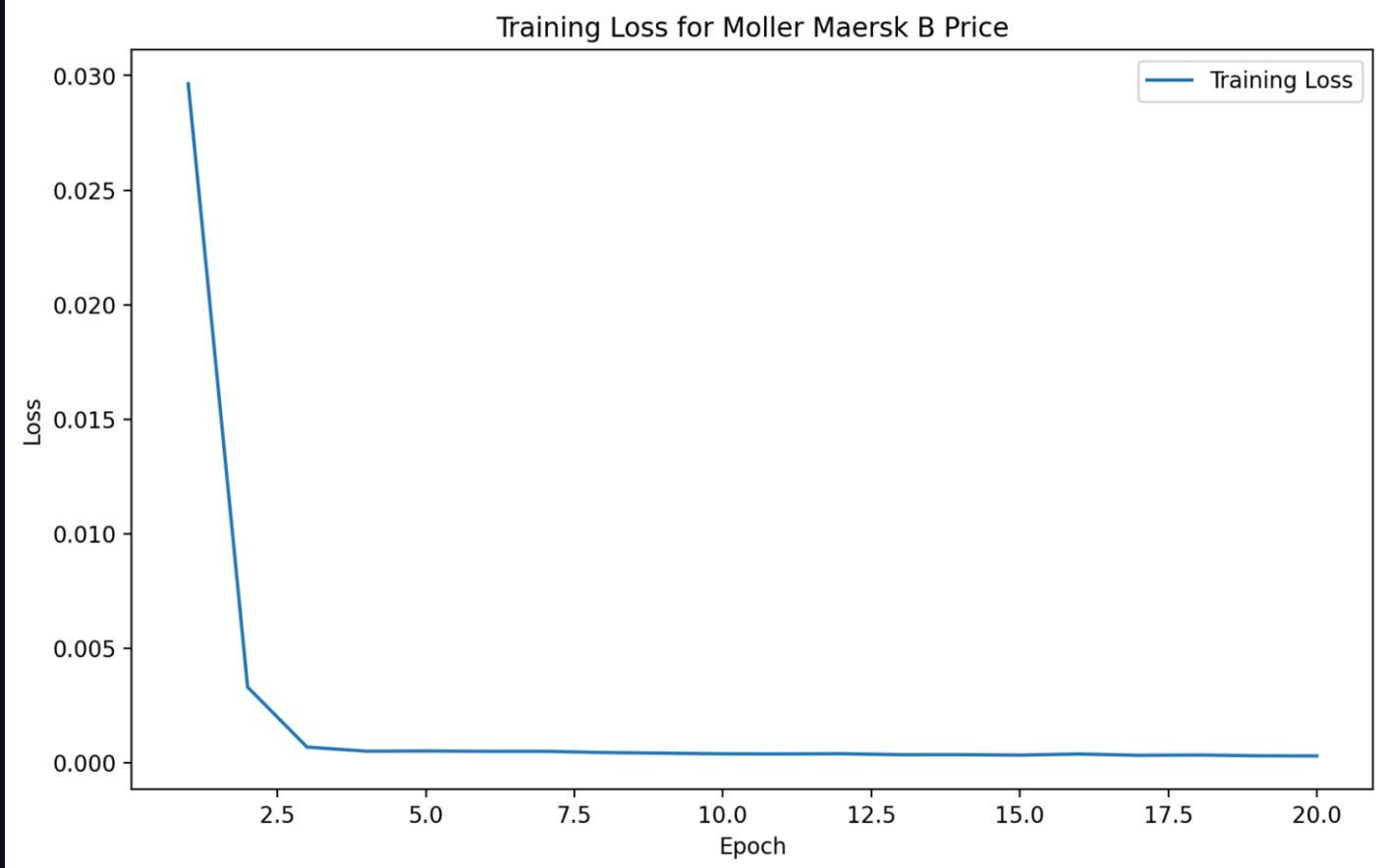
Epoch 16/20, Loss: 0.0004

Epoch 17/20, Loss: 0.0003

Epoch 18/20, Loss: 0.0003

Epoch 19/20, Loss: 0.0003

Epoch 20/20, Loss: 0.0003



Testing the Model for Moller Maersk B Price

Performance Metrics for Moller Maersk B Price

Mean Squared Error (MSE): 422643.2188

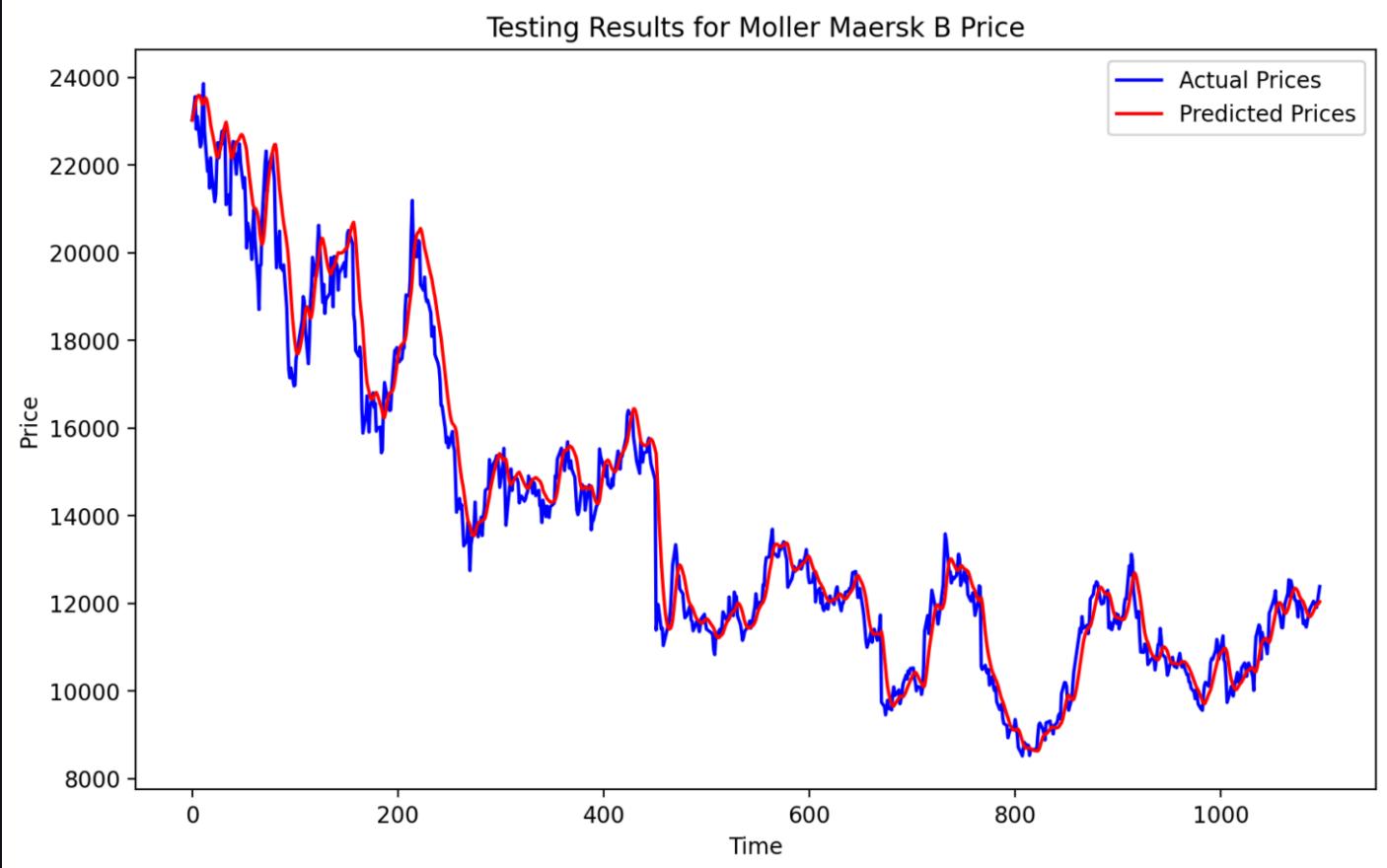
Mean Absolute Error (MAE): 459.9631

R-Squared (R²): 0.9675

Precision: 0.9688195991091314

Recall: 0.9931506849315068

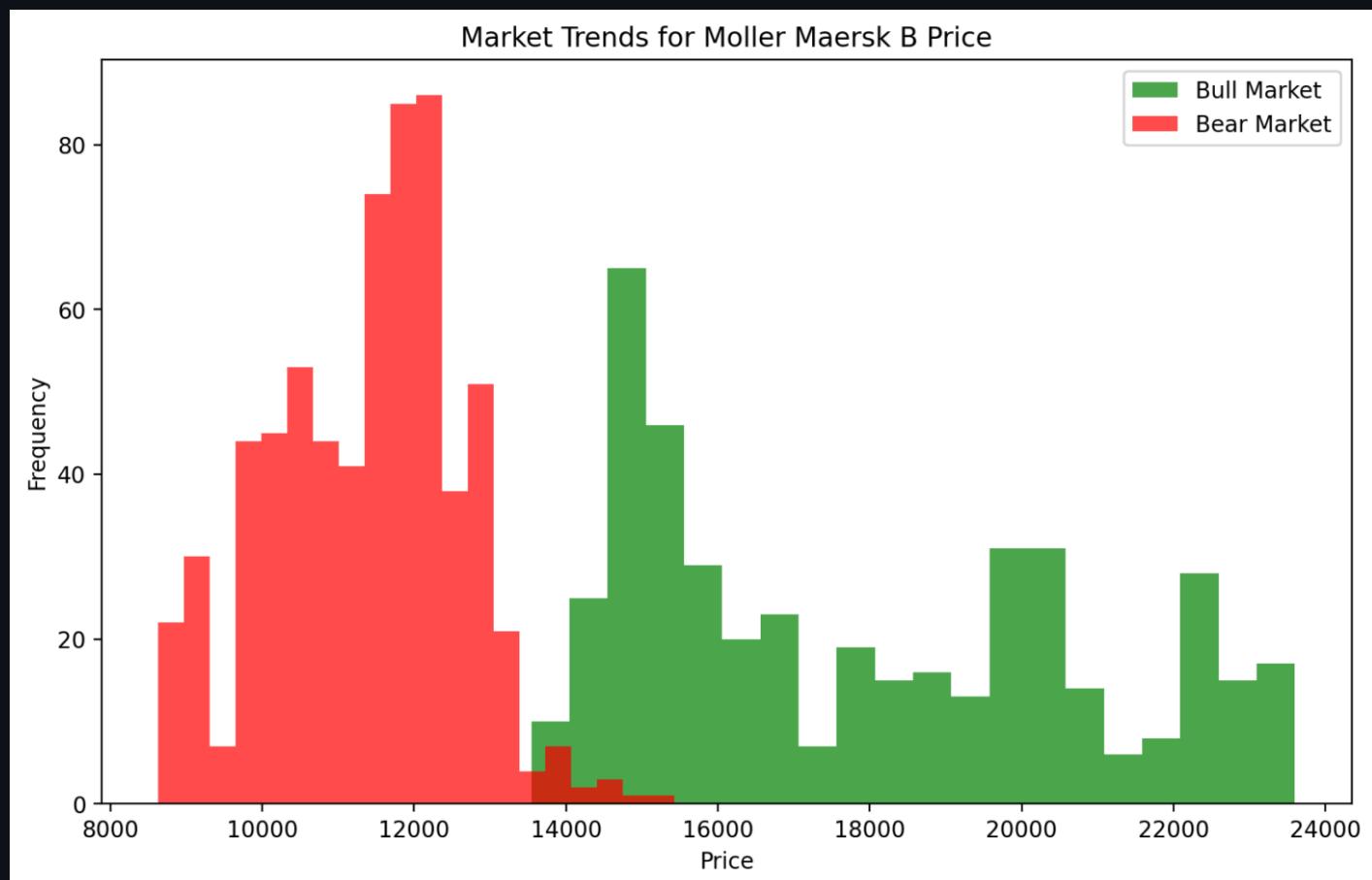
F1 Score: 0.9808342728297632



Market Trend Analysis for Moller Maersk B Price

Bull Market Average Prediction: 17865.7930

Bear Market Average Prediction: 11366.4258



Processing Stock: Neste Oyj Price

Train and test datasets prepared for Neste Oyj Price.

Training the Model for Neste Oyj Price

Epoch 1/20, Loss: 0.0875

Epoch 2/20, Loss: 0.0094

Epoch 3/20, Loss: 0.0016

Epoch 4/20, Loss: 0.0009

Epoch 5/20, Loss: 0.0007

Epoch 6/20, Loss: 0.0006

Epoch 7/20, Loss: 0.0005

Epoch 8/20, Loss: 0.0005

Epoch 9/20, Loss: 0.0004

Epoch 10/20, Loss: 0.0004

Epoch 11/20, Loss: 0.0004

Epoch 12/20, Loss: 0.0004

Epoch 13/20, Loss: 0.0004

Epoch 14/20, Loss: 0.0004

Epoch 15/20, Loss: 0.0003

Epoch 16/20, Loss: 0.0003

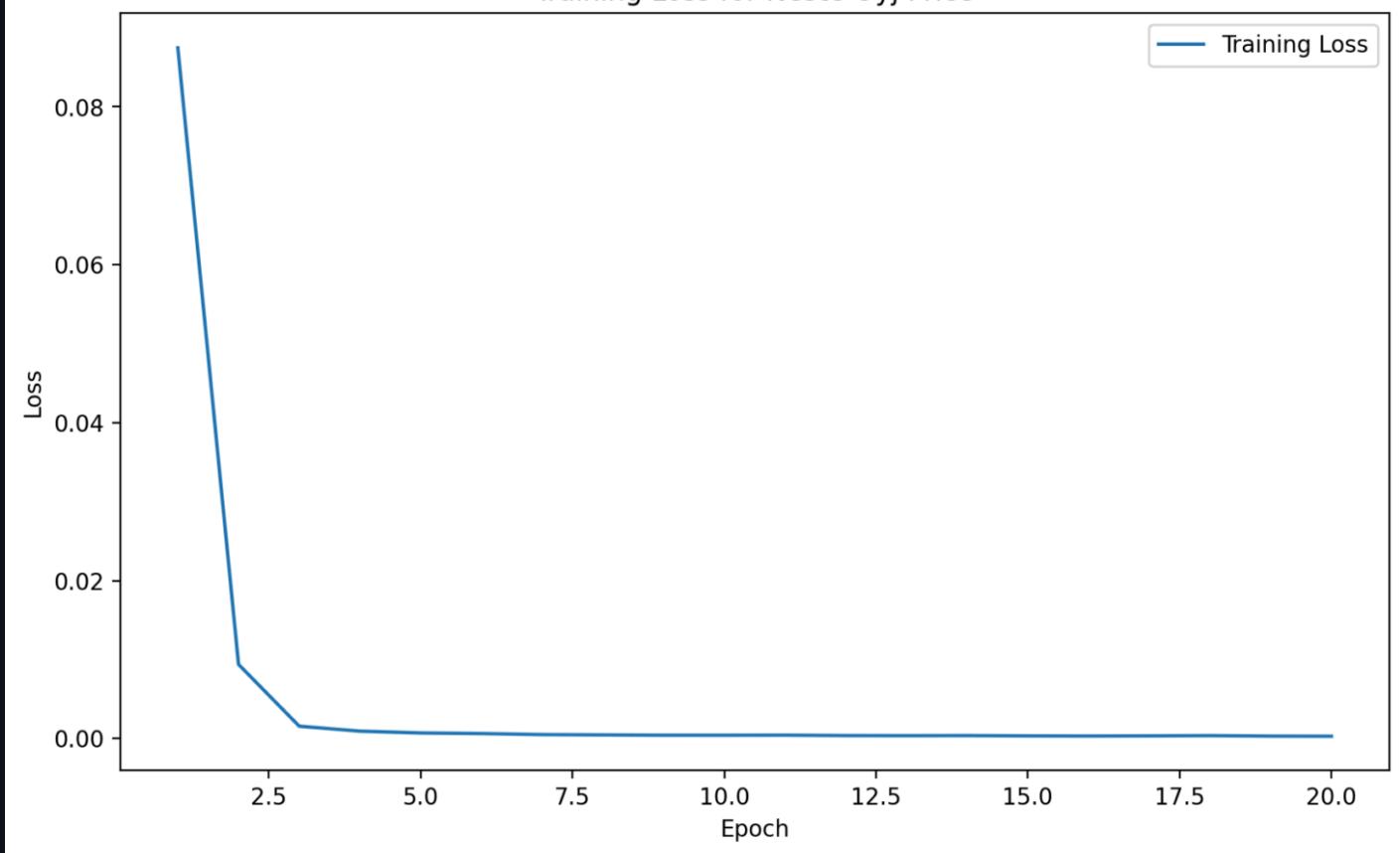
Epoch 17/20, Loss: 0.0003

Epoch 18/20, Loss: 0.0004

Epoch 19/20, Loss: 0.0003

Epoch 20/20, Loss: 0.0003

Training Loss for Neste Oyj Price



Testing the Model for Neste Oyj Price

Performance Metrics for Neste Oyj Price

Mean Squared Error (MSE): 1.6249

Mean Absolute Error (MAE): 0.9395

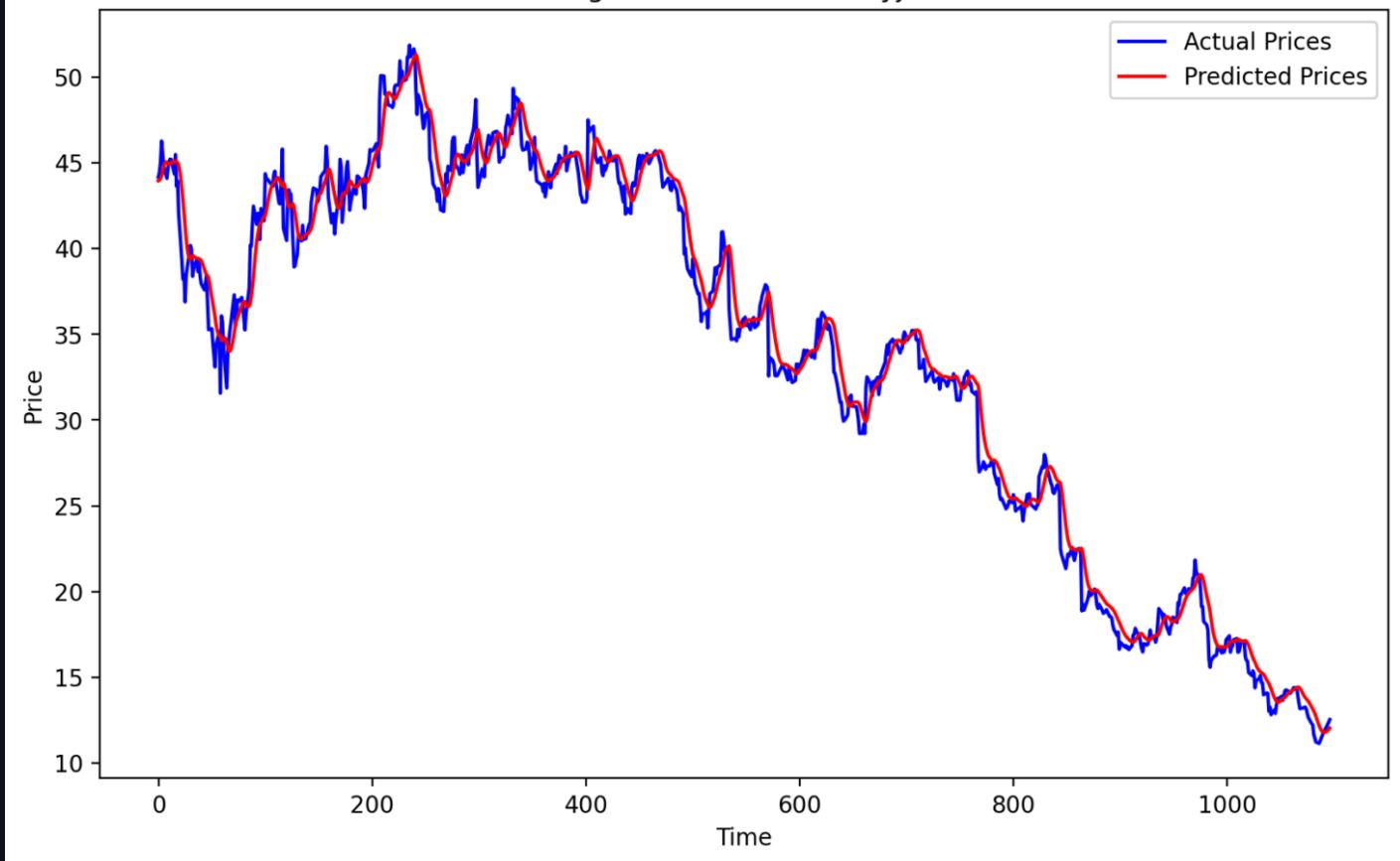
R-Squared (R2): 0.9868

Precision: 0.9515625

Recall: 0.9870340356564019

F1 Score: 0.9689737470167065

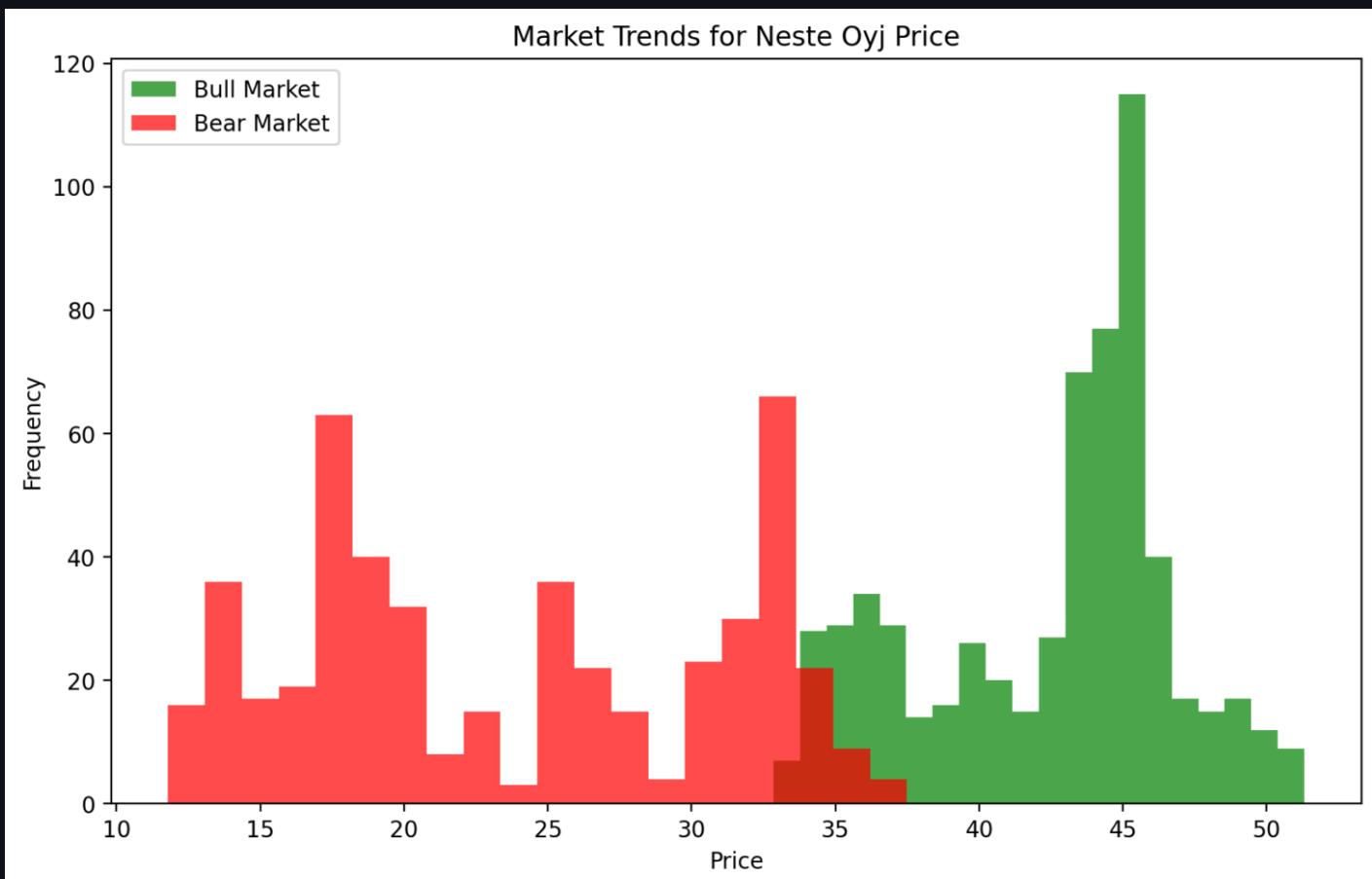
Testing Results for Neste Oyj Price



Market Trend Analysis for Neste Oyj Price

Bull Market Average Prediction: 42.4730

Bear Market Average Prediction: 23.7564



Processing Stock: NIBE Industrier B Price

Train and test datasets prepared for NIBE Industrier B Price.

Training the Model for NIBE Industrier B Price

Epoch 1/20, Loss: 0.0515

Epoch 2/20, Loss: 0.0054

Epoch 3/20, Loss: 0.0003

Epoch 4/20, Loss: 0.0003

Epoch 5/20, Loss: 0.0003

Epoch 6/20, Loss: 0.0002

Epoch 7/20, Loss: 0.0002

Epoch 8/20, Loss: 0.0002

Epoch 9/20, Loss: 0.0002

Epoch 10/20, Loss: 0.0002

Epoch 11/20, Loss: 0.0002

Epoch 12/20, Loss: 0.0002

Epoch 13/20, Loss: 0.0002

Epoch 14/20, Loss: 0.0002

Epoch 15/20, Loss: 0.0002

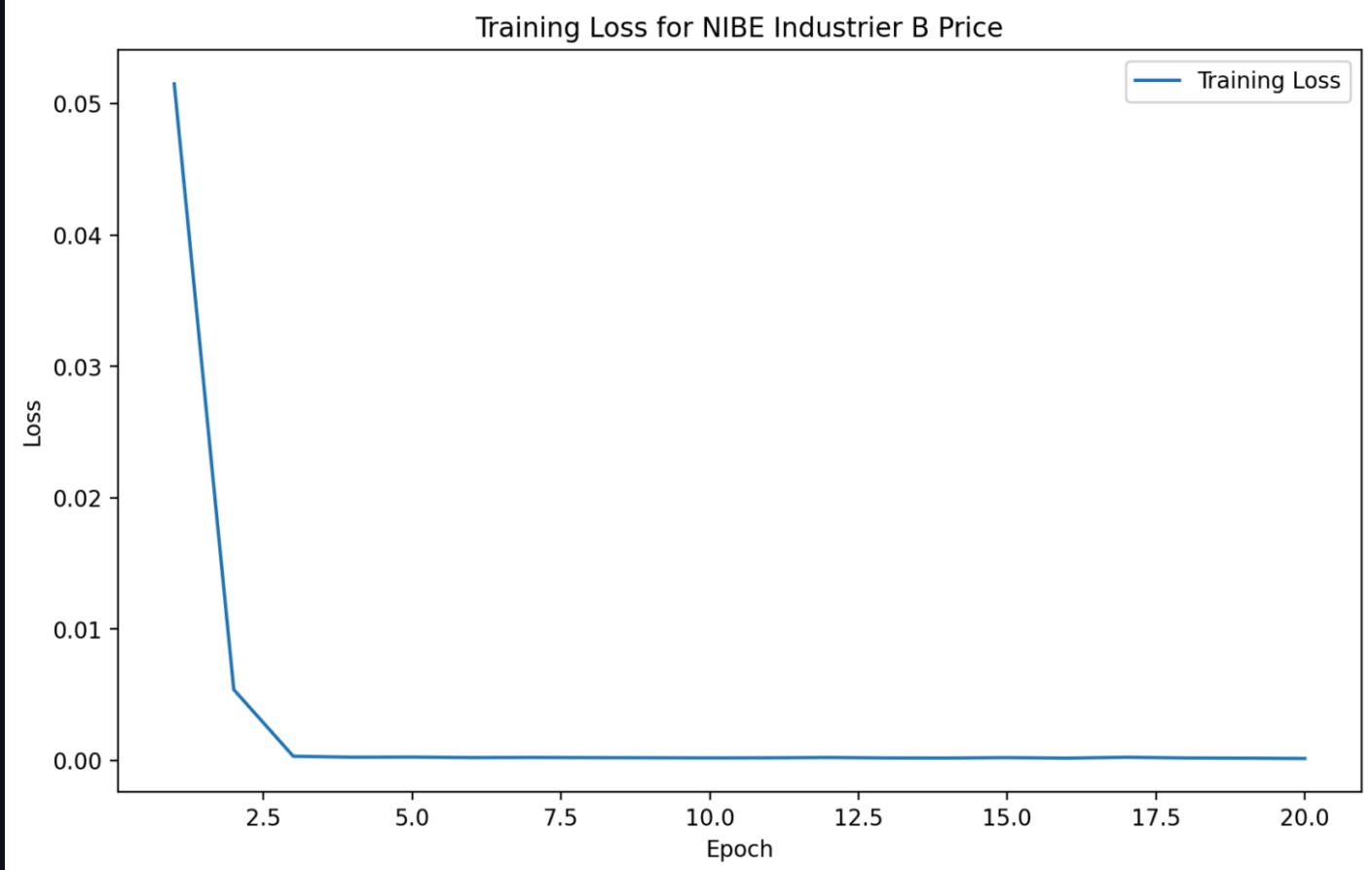
Epoch 16/20, Loss: 0.0002

Epoch 17/20, Loss: 0.0003

Epoch 18/20, Loss: 0.0002

Epoch 19/20, Loss: 0.0002

Epoch 20/20, Loss: 0.0002



Testing the Model for NIBE Industrier B Price

Performance Metrics for NIBE Industrier B Price

Mean Squared Error (MSE): 17.6427

Mean Absolute Error (MAE): 3.1591

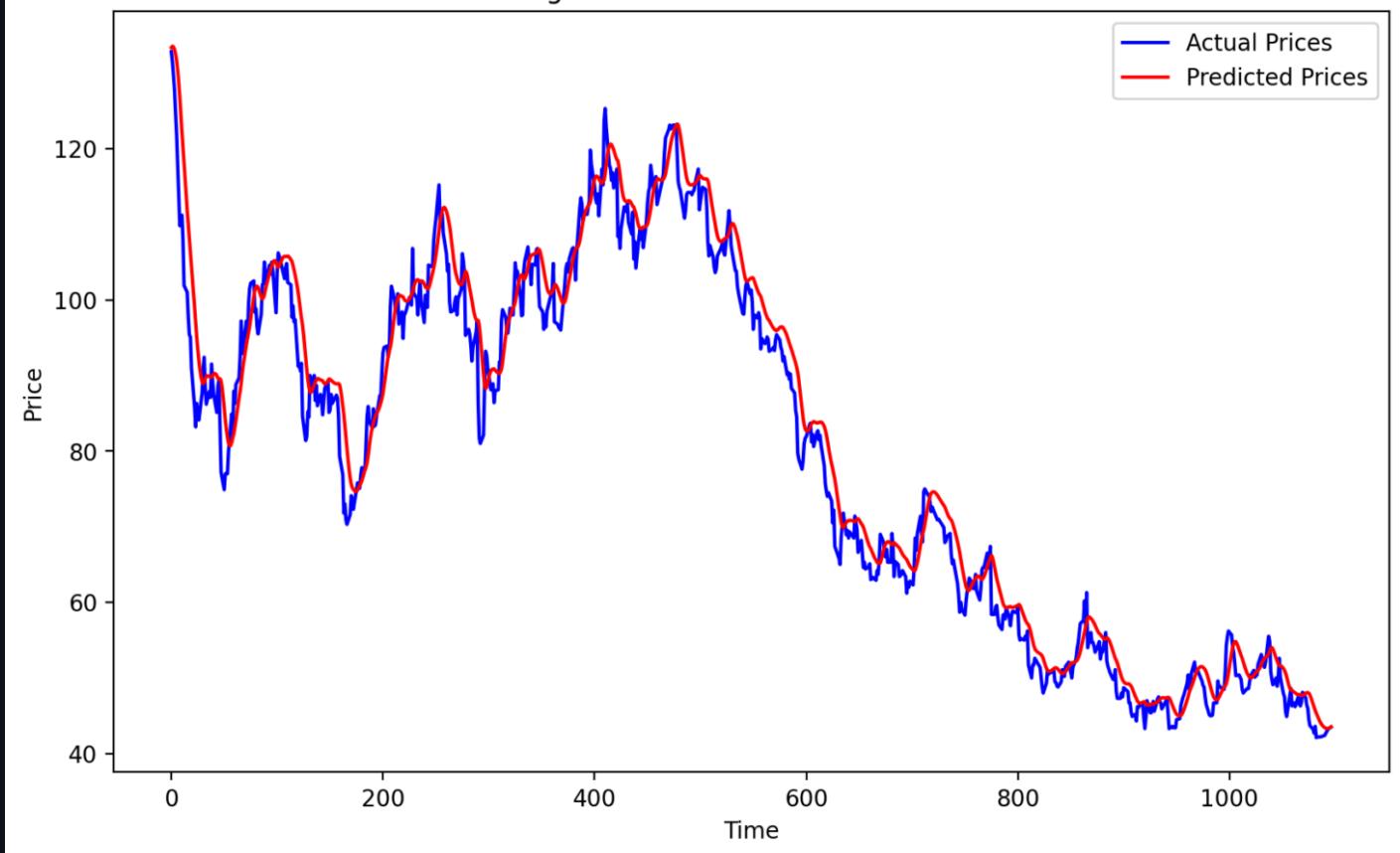
R-Squared (R2): 0.9696

Precision: 0.9551495016611296

Recall: 0.9948096885813149

F1 Score: 0.9745762711864406

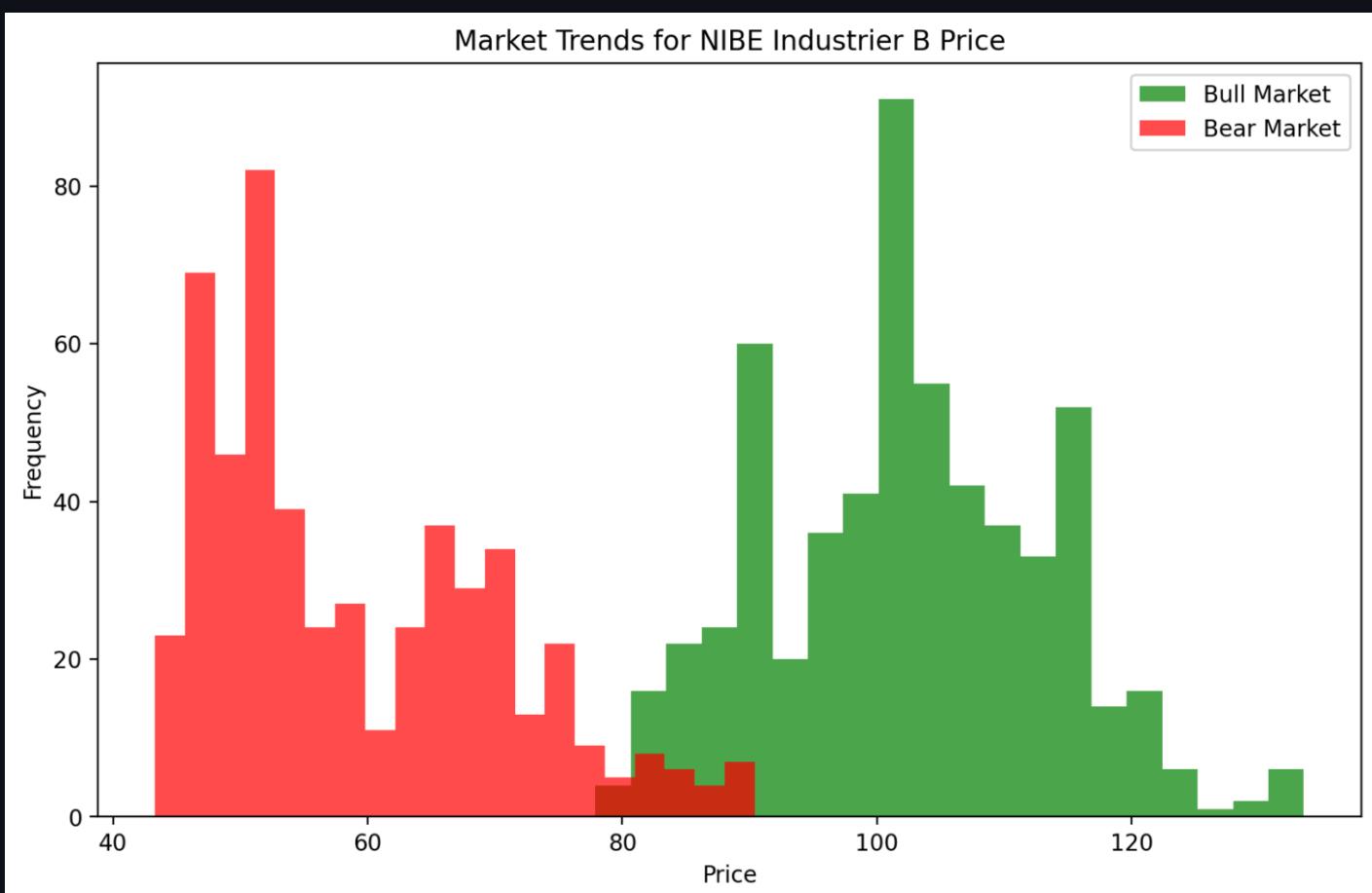
Testing Results for NIBE Industrier B Price



Market Trend Analysis for NIBE Industrier B Price

Bull Market Average Prediction: 102.3719

Bear Market Average Prediction: 58.9494



Processing Stock: Nokia Oyj Price

Train and test datasets prepared for Nokia Oyj Price.

Training the Model for Nokia Oyj Price

Epoch 1/20, Loss: 0.0794

Epoch 2/20, Loss: 0.0119

Epoch 3/20, Loss: 0.0023

Epoch 4/20, Loss: 0.0014

Epoch 5/20, Loss: 0.0012

Epoch 6/20, Loss: 0.0012

Epoch 7/20, Loss: 0.0011

Epoch 8/20, Loss: 0.0011

Epoch 9/20, Loss: 0.0010

Epoch 10/20, Loss: 0.0010

Epoch 11/20, Loss: 0.0009

Epoch 12/20, Loss: 0.0009

Epoch 13/20, Loss: 0.0011

Epoch 14/20, Loss: 0.0009

Epoch 15/20, Loss: 0.0008

Epoch 16/20, Loss: 0.0008

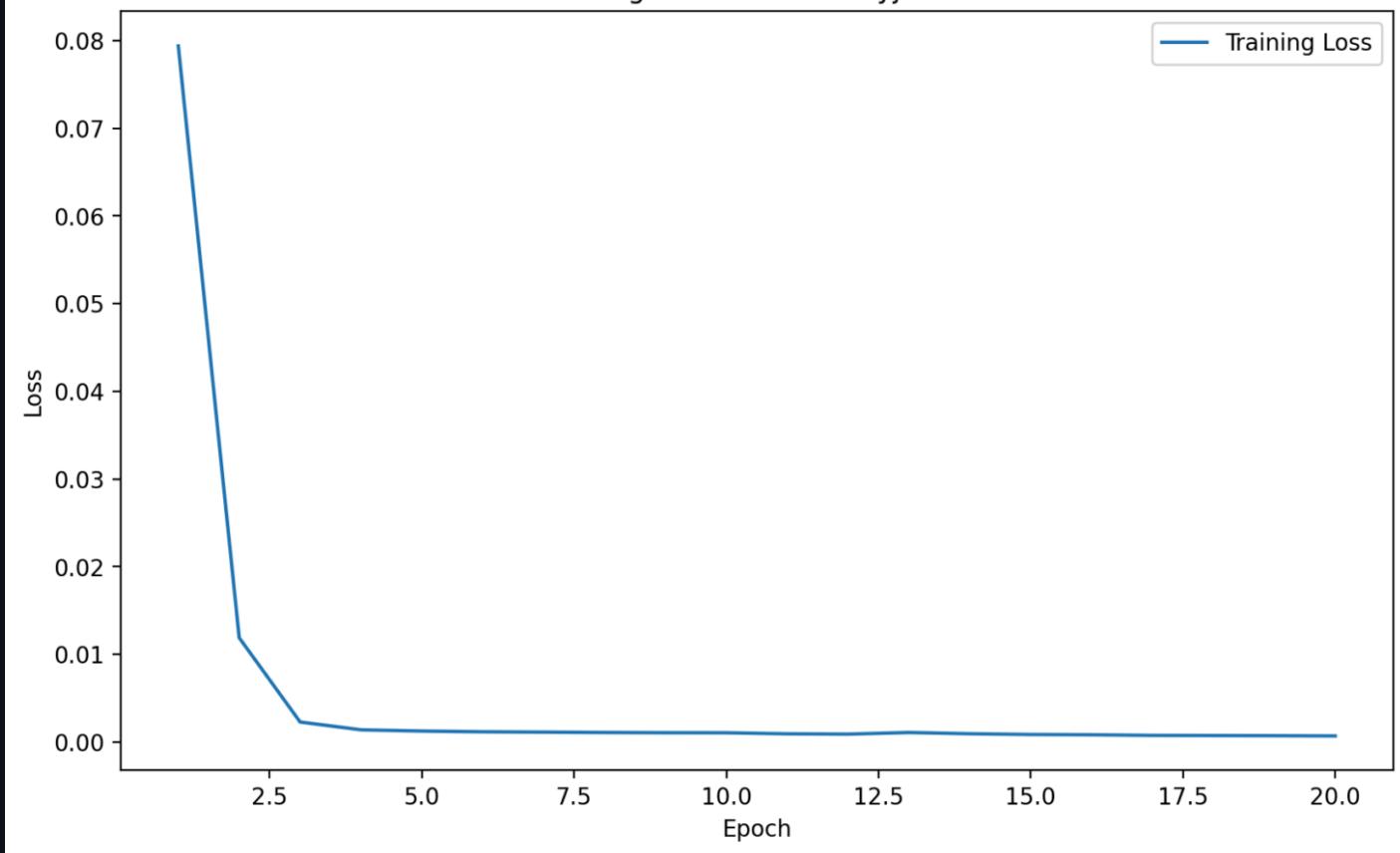
Epoch 17/20, Loss: 0.0007

Epoch 18/20, Loss: 0.0007

Epoch 19/20, Loss: 0.0007

Epoch 20/20, Loss: 0.0007

Training Loss for Nokia Oyj Price



Testing the Model for Nokia Oyj Price

Performance Metrics for Nokia Oyj Price

Mean Squared Error (MSE): 0.0097

Mean Absolute Error (MAE): 0.0675

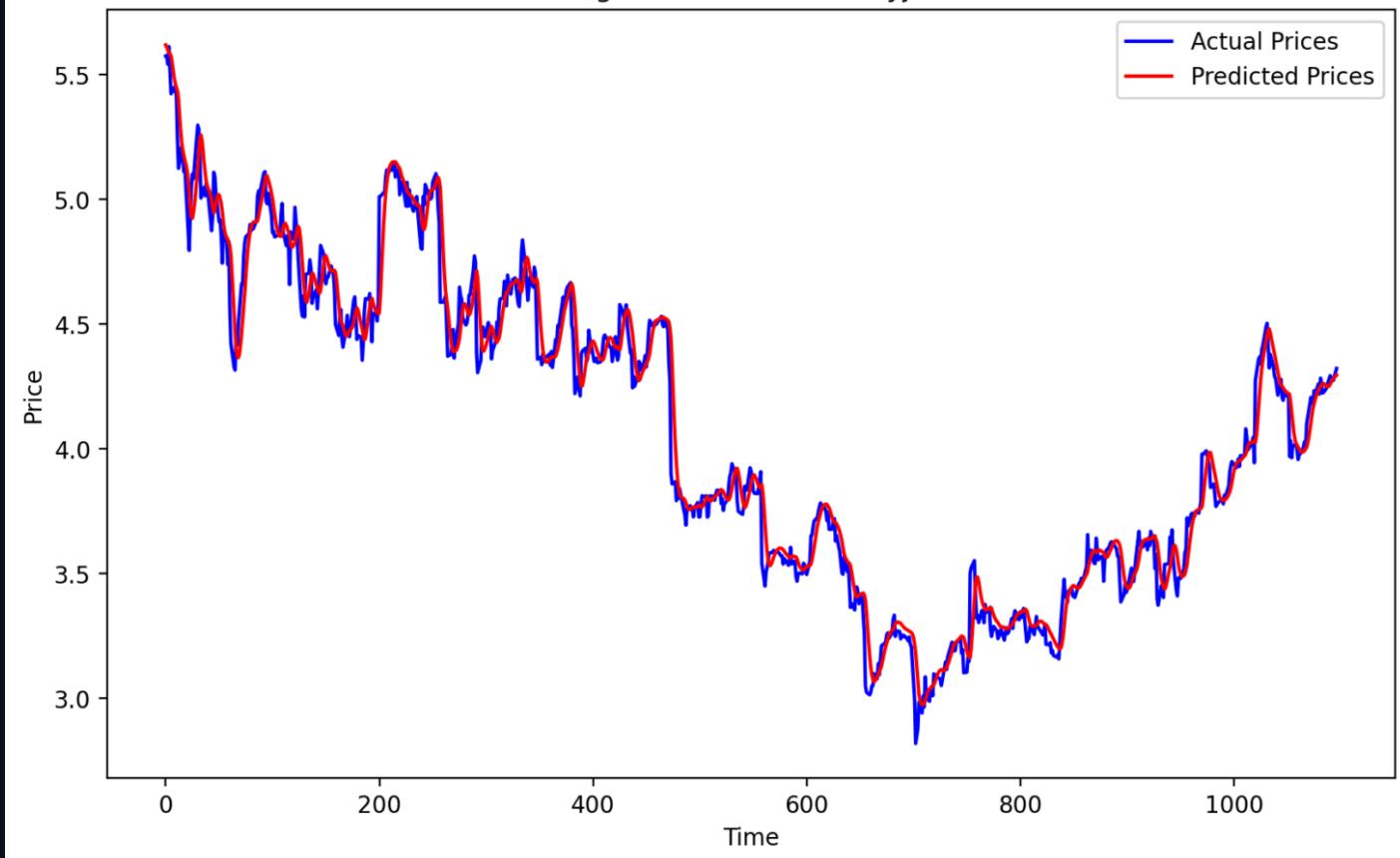
R-Squared (R²): 0.9755

Precision: 0.9851024208566108

Recall: 0.9887850467289719

F1 Score: 0.9869402985074627

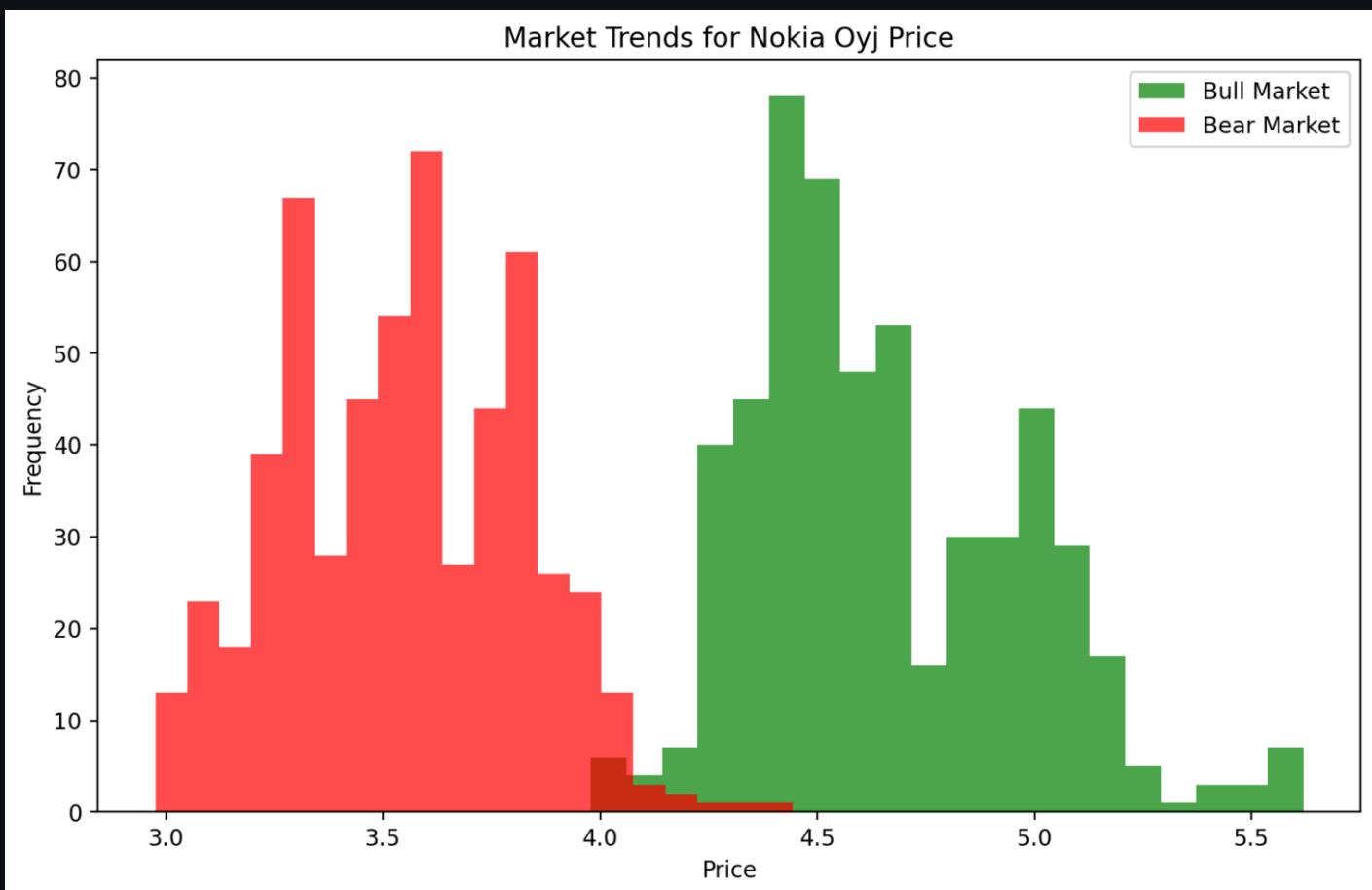
Testing Results for Nokia Oyj Price



Market Trend Analysis for Nokia Oyj Price

Bull Market Average Prediction: 4.6527

Bear Market Average Prediction: 3.5450



Processing Stock: Nordea Bank Price

Train and test datasets prepared for Nordea Bank Price.

Training the Model for Nordea Bank Price

Epoch 1/20, Loss: 0.0807

Epoch 2/20, Loss: 0.0162

Epoch 3/20, Loss: 0.0033

Epoch 4/20, Loss: 0.0019

Epoch 5/20, Loss: 0.0015

Epoch 6/20, Loss: 0.0013

Epoch 7/20, Loss: 0.0012

Epoch 8/20, Loss: 0.0012

Epoch 9/20, Loss: 0.0011

Epoch 10/20, Loss: 0.0010

Epoch 11/20, Loss: 0.0011

Epoch 12/20, Loss: 0.0009

Epoch 13/20, Loss: 0.0009

Epoch 14/20, Loss: 0.0009

Epoch 15/20, Loss: 0.0008

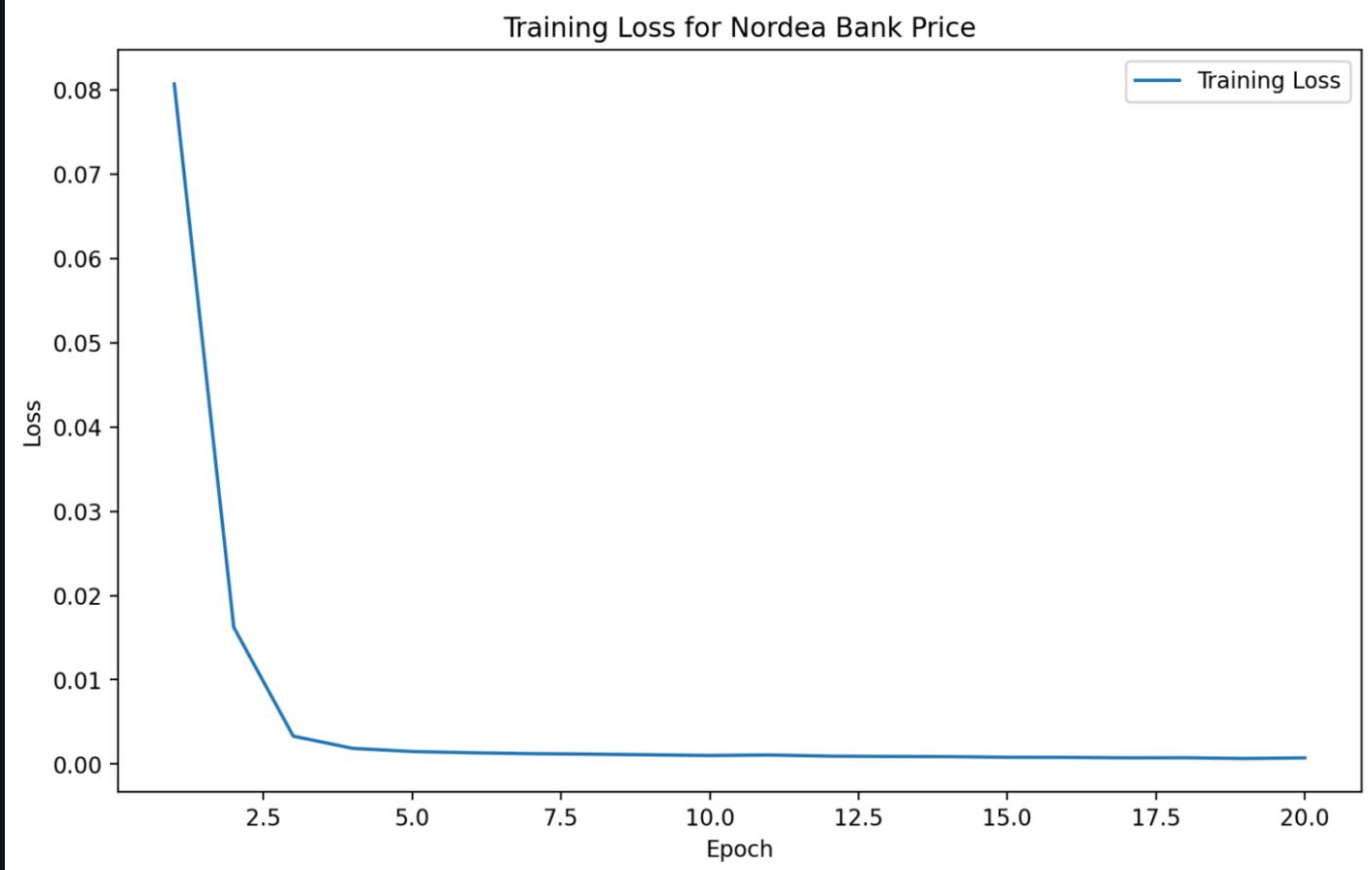
Epoch 16/20, Loss: 0.0008

Epoch 17/20, Loss: 0.0007

Epoch 18/20, Loss: 0.0007

Epoch 19/20, Loss: 0.0007

Epoch 20/20, Loss: 0.0007



Testing the Model for Nordea Bank Price

Performance Metrics for Nordea Bank Price

Mean Squared Error (MSE): 0.0428

Mean Absolute Error (MAE): 0.1465

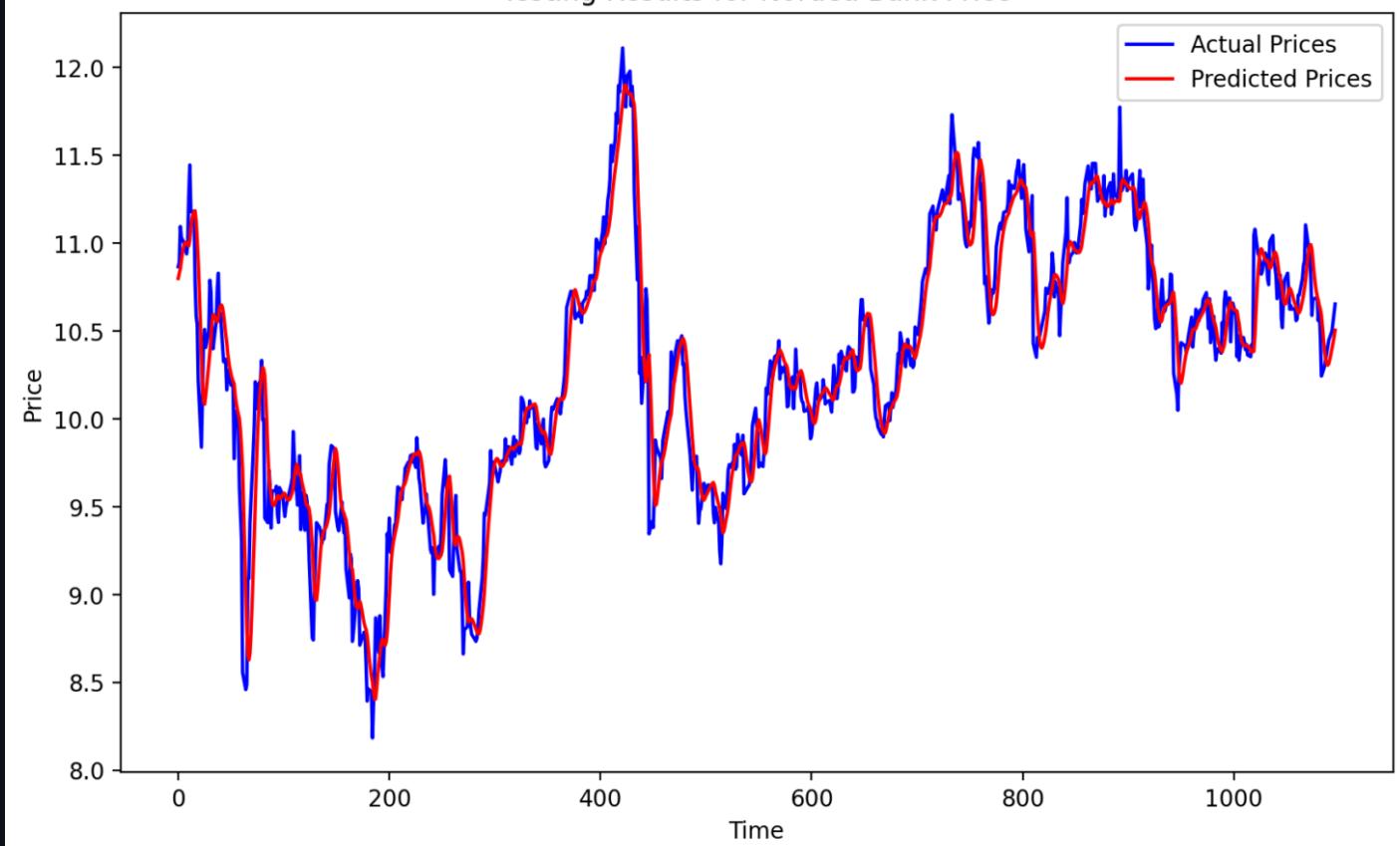
R-Squared (R²): 0.9216

Precision: 0.9347079037800687

Recall: 0.9477351916376306

F1 Score: 0.9411764705882353

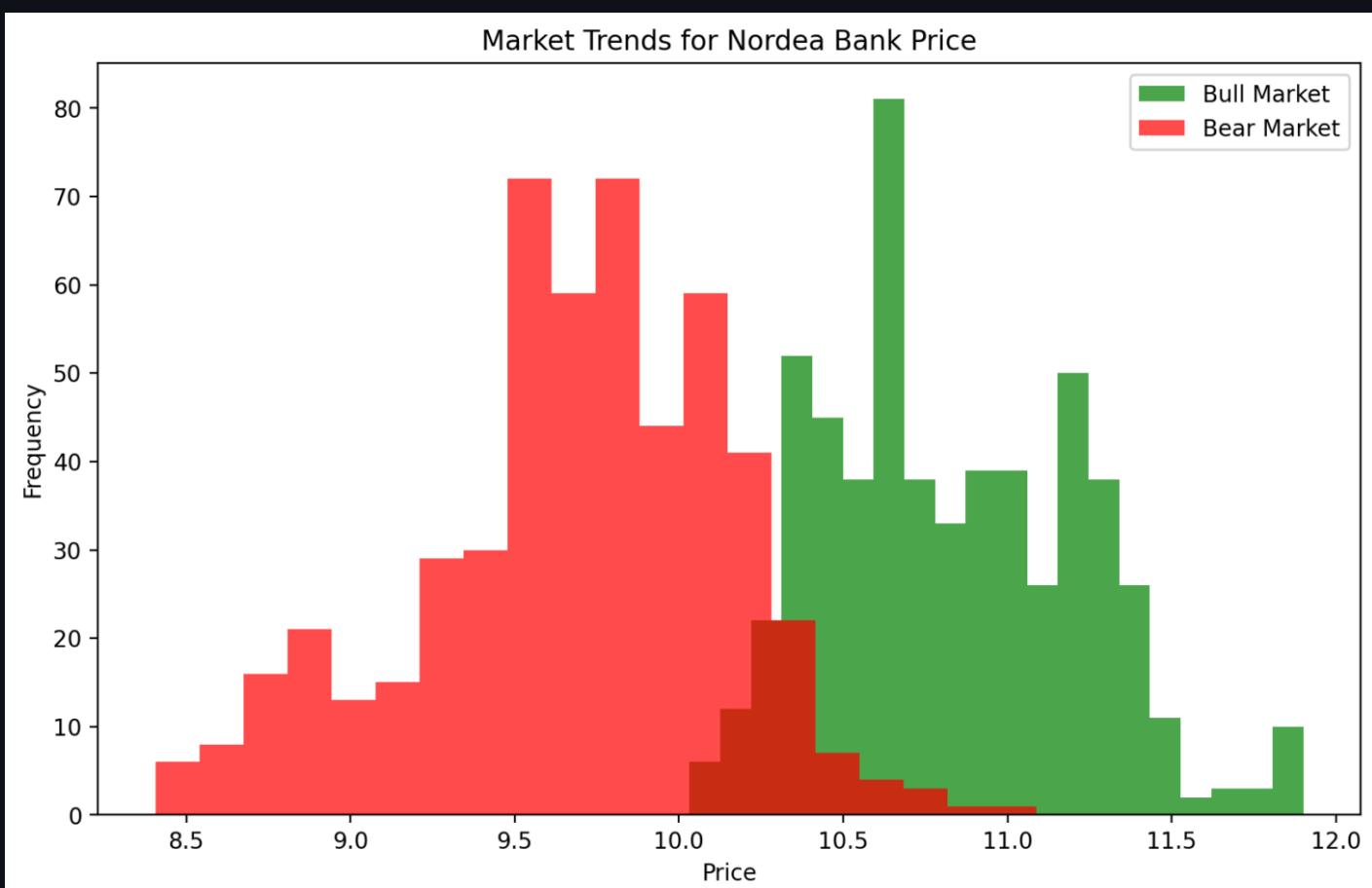
Testing Results for Nordea Bank Price



Market Trend Analysis for Nordea Bank Price

Bull Market Average Prediction: 10.8240

Bear Market Average Prediction: 9.6867



Processing Stock: Novo Nordisk B Price

Train and test datasets prepared for Novo Nordisk B Price.

Training the Model for Novo Nordisk B Price

Epoch 1/20, Loss: 0.0028

Epoch 2/20, Loss: 0.0010

Epoch 3/20, Loss: 0.0001

Epoch 4/20, Loss: 0.0000

Epoch 5/20, Loss: 0.0000

Epoch 6/20, Loss: 0.0000

Epoch 7/20, Loss: 0.0000

Epoch 8/20, Loss: 0.0000

Epoch 9/20, Loss: 0.0000

Epoch 10/20, Loss: 0.0000

Epoch 11/20, Loss: 0.0000

Epoch 12/20, Loss: 0.0000

Epoch 13/20, Loss: 0.0000

Epoch 14/20, Loss: 0.0000

Epoch 15/20, Loss: 0.0000

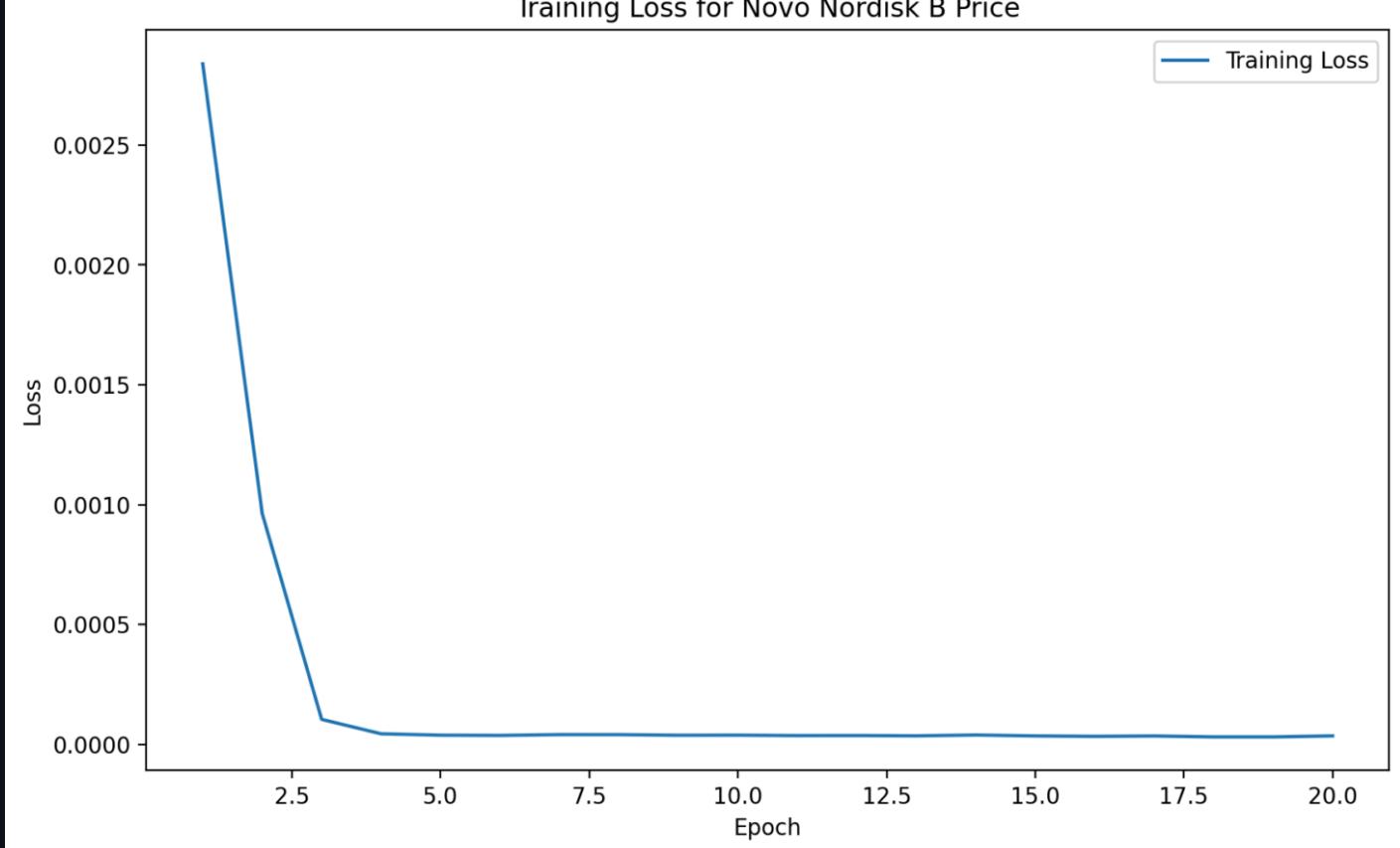
Epoch 16/20, Loss: 0.0000

Epoch 17/20, Loss: 0.0000

Epoch 18/20, Loss: 0.0000

Epoch 19/20, Loss: 0.0000

Epoch 20/20, Loss: 0.0000



Testing the Model for Novo Nordisk B Price

Performance Metrics for Novo Nordisk B Price

Mean Squared Error (MSE): 575.1819

Mean Absolute Error (MAE): 16.6244

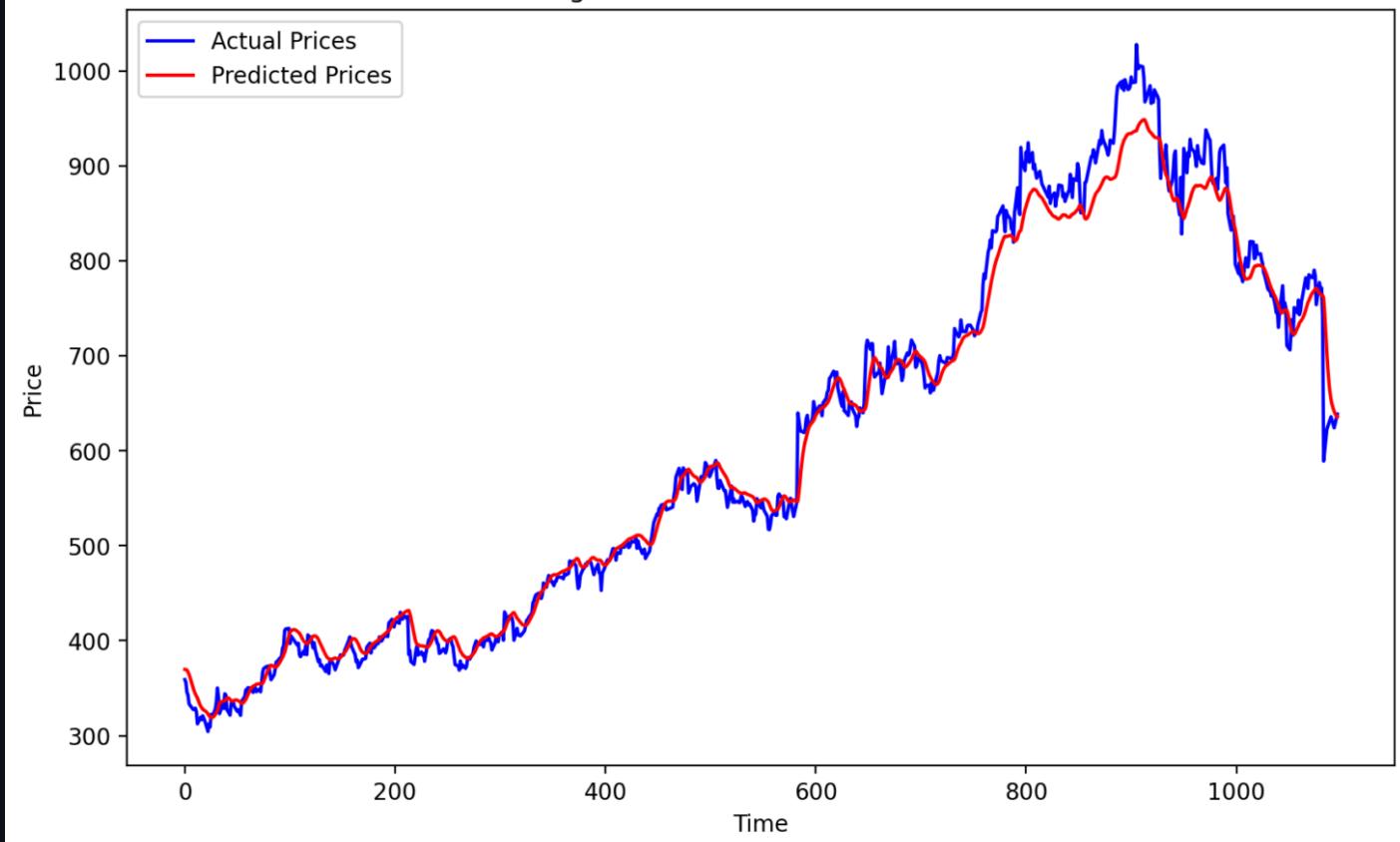
R-Squared (R2): 0.9858

Precision: 0.9960552268244576

Recall: 0.986328125

F1 Score: 0.9911678115799804

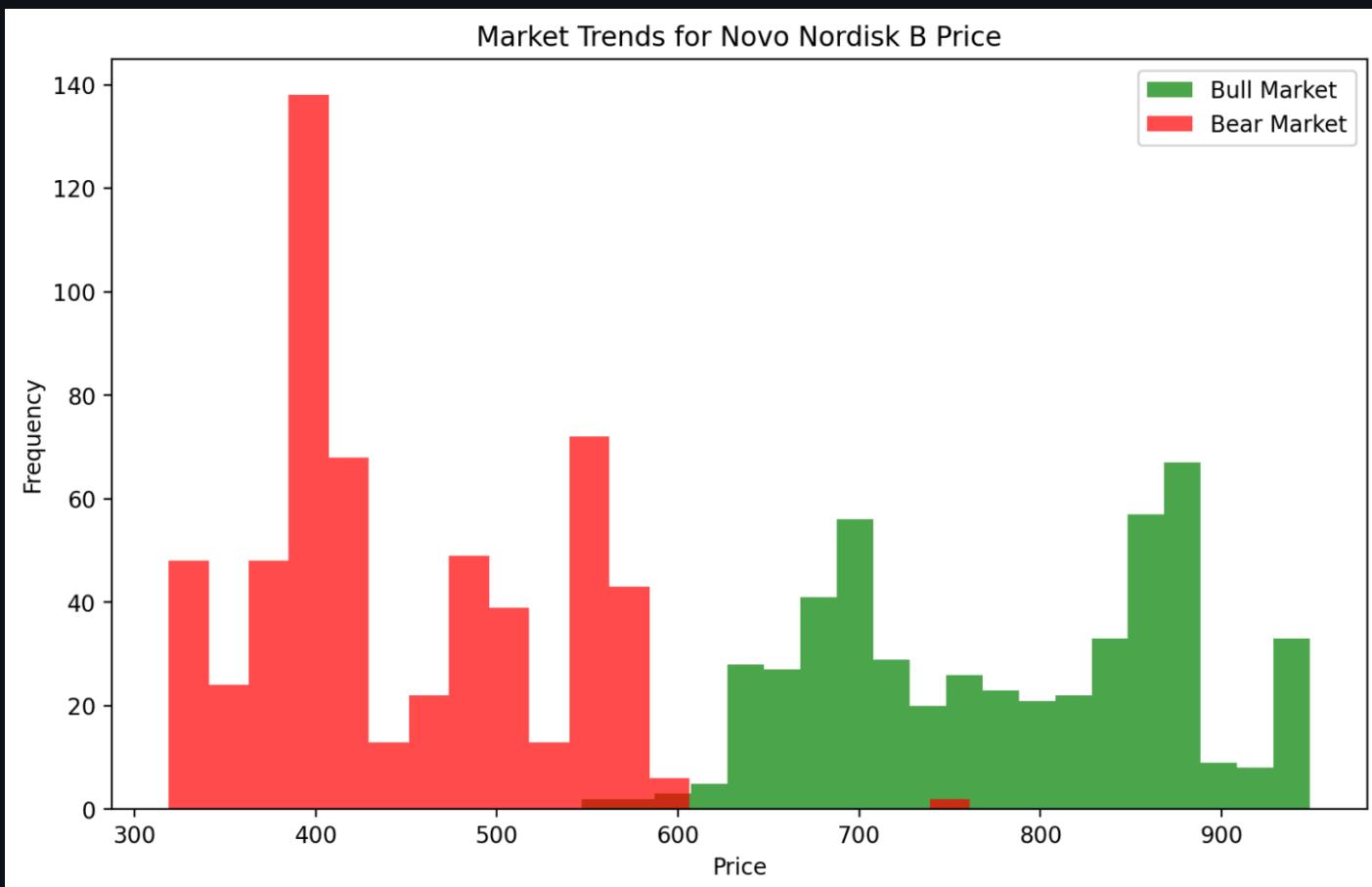
Testing Results for Novo Nordisk B Price



Market Trend Analysis for Novo Nordisk B Price

Bull Market Average Prediction: 780.3749

Bear Market Average Prediction: 446.7977



Processing Stock: Novozymes B Price

Train and test datasets prepared for Novozymes B Price.

Training the Model for Novozymes B Price

Epoch 1/20, Loss: 0.0682

Epoch 2/20, Loss: 0.0163

Epoch 3/20, Loss: 0.0021

Epoch 4/20, Loss: 0.0014

Epoch 5/20, Loss: 0.0012

Epoch 6/20, Loss: 0.0011

Epoch 7/20, Loss: 0.0010

Epoch 8/20, Loss: 0.0010

Epoch 9/20, Loss: 0.0009

Epoch 10/20, Loss: 0.0009

Epoch 11/20, Loss: 0.0008

Epoch 12/20, Loss: 0.0008

Epoch 13/20, Loss: 0.0007

Epoch 14/20, Loss: 0.0007

Epoch 15/20, Loss: 0.0007

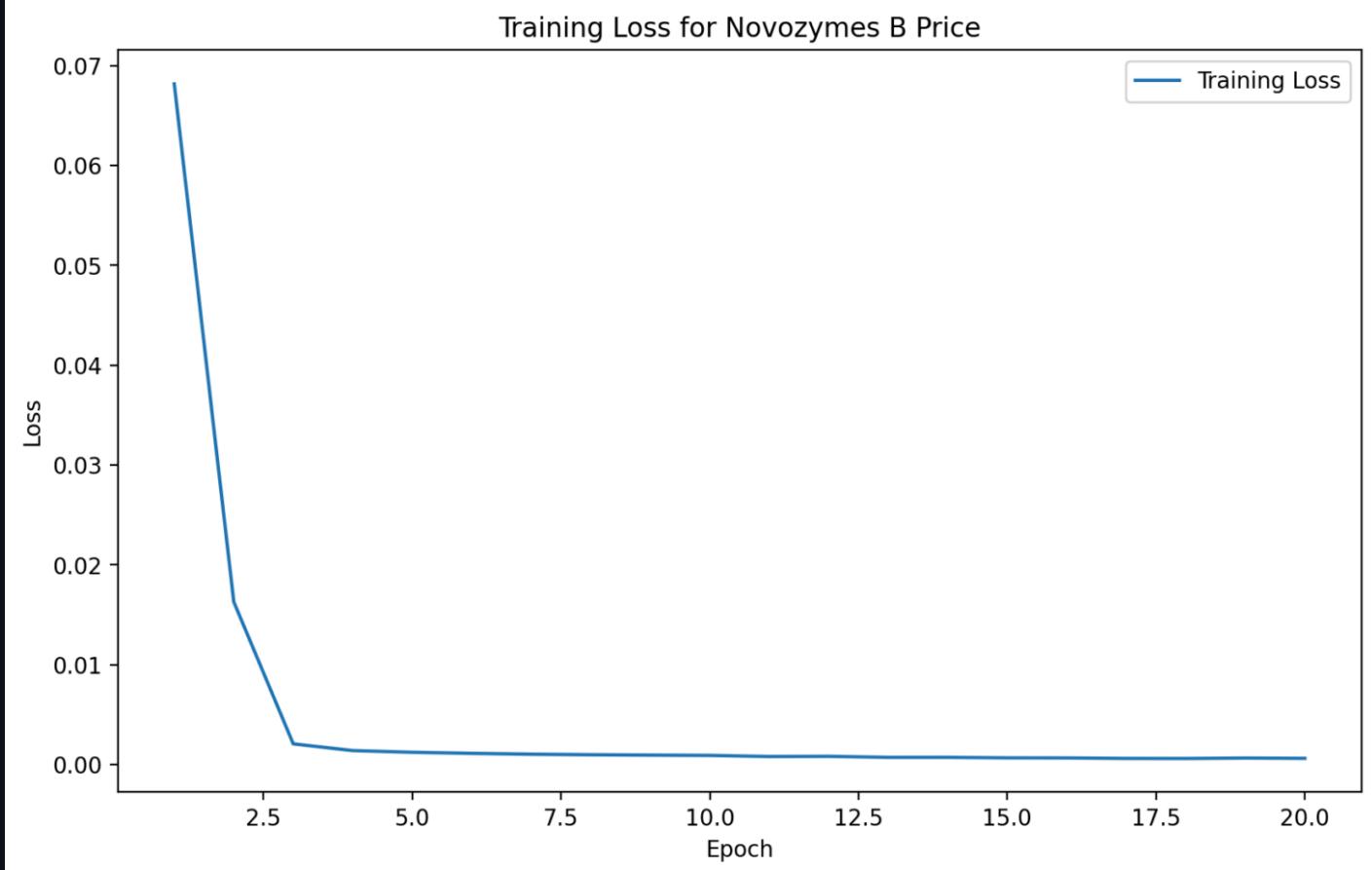
Epoch 16/20, Loss: 0.0007

Epoch 17/20, Loss: 0.0006

Epoch 18/20, Loss: 0.0006

Epoch 19/20, Loss: 0.0007

Epoch 20/20, Loss: 0.0006



Testing the Model for Novozymes B Price

Performance Metrics for Novozymes B Price

Mean Squared Error (MSE): 94.0549

Mean Absolute Error (MAE): 7.0398

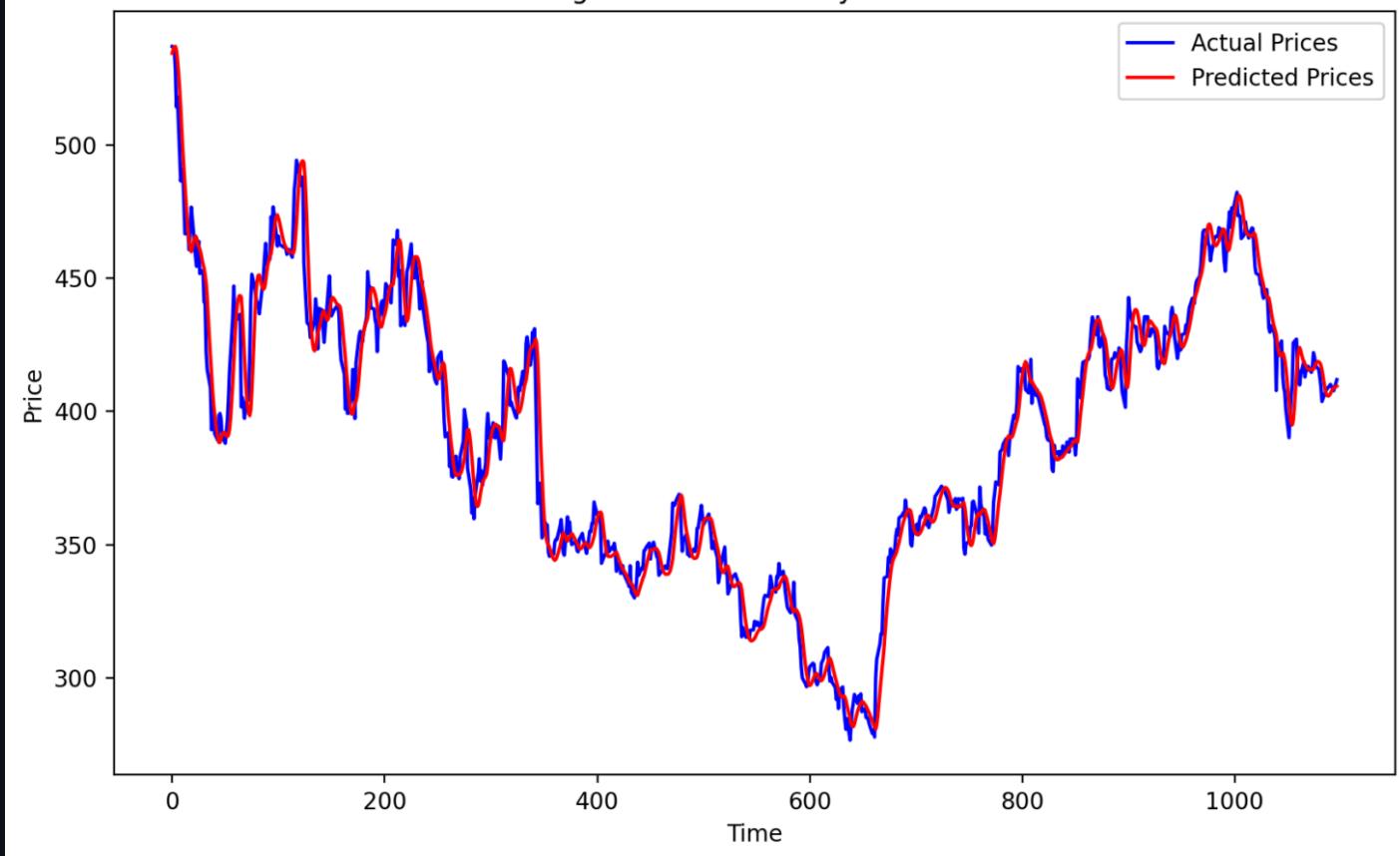
R-Squared (R²): 0.9636

Precision: 0.9581881533101045

Recall: 0.9666080843585237

F1 Score: 0.9623797025371829

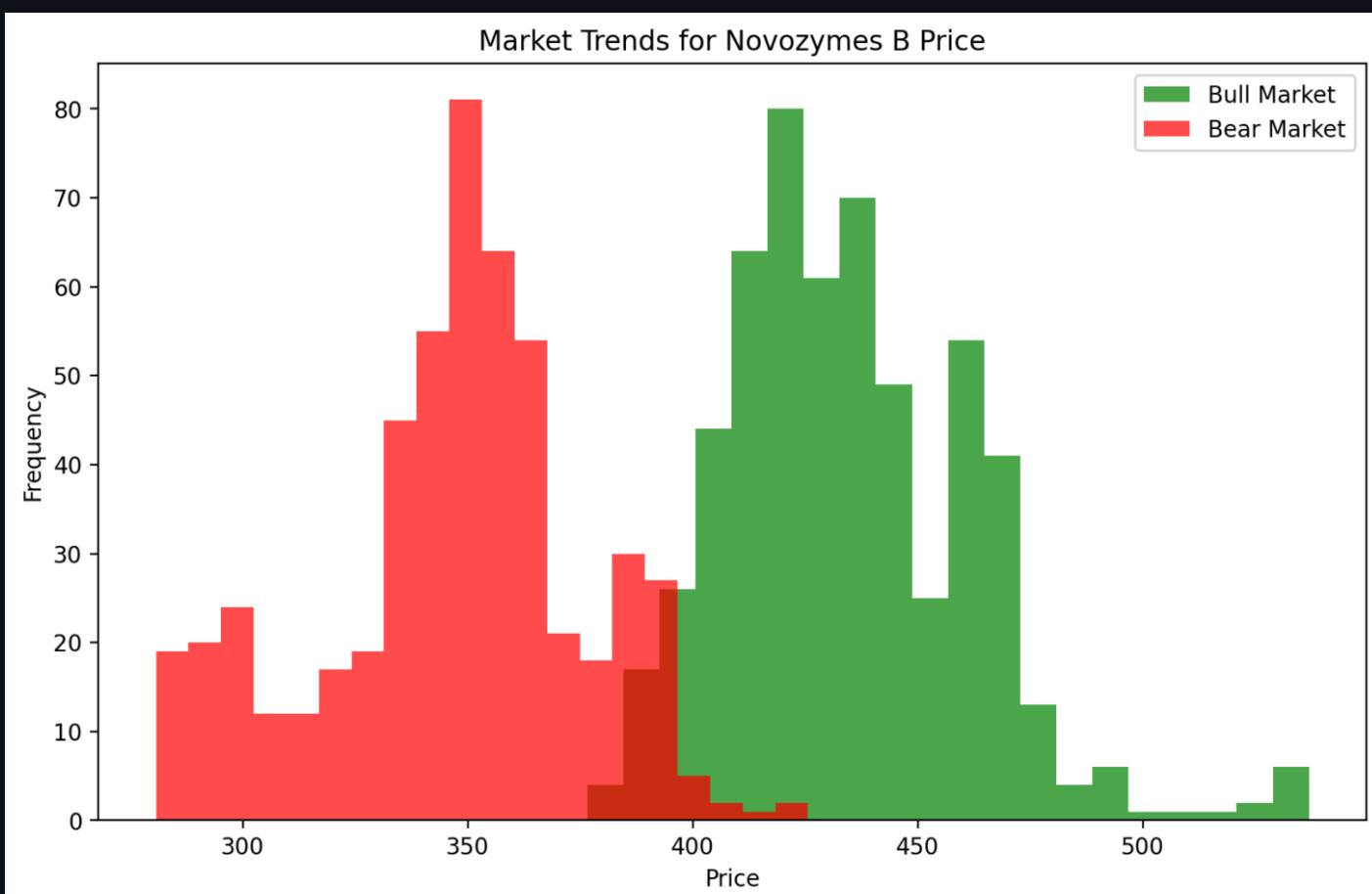
Testing Results for Novozymes B Price



Market Trend Analysis for Novozymes B Price

Bull Market Average Prediction: 434.2341

Bear Market Average Prediction: 346.6959



Processing Stock: Oersted AS Price

Train and test datasets prepared for Oersted AS Price.

Training the Model for Oersted AS Price

Epoch 1/20, Loss: 0.1020

Epoch 2/20, Loss: 0.0179

Epoch 3/20, Loss: 0.0021

Epoch 4/20, Loss: 0.0012

Epoch 5/20, Loss: 0.0010

Epoch 6/20, Loss: 0.0008

Epoch 7/20, Loss: 0.0008

Epoch 8/20, Loss: 0.0007

Epoch 9/20, Loss: 0.0006

Epoch 10/20, Loss: 0.0006

Epoch 11/20, Loss: 0.0006

Epoch 12/20, Loss: 0.0005

Epoch 13/20, Loss: 0.0005

Epoch 14/20, Loss: 0.0005

Epoch 15/20, Loss: 0.0005

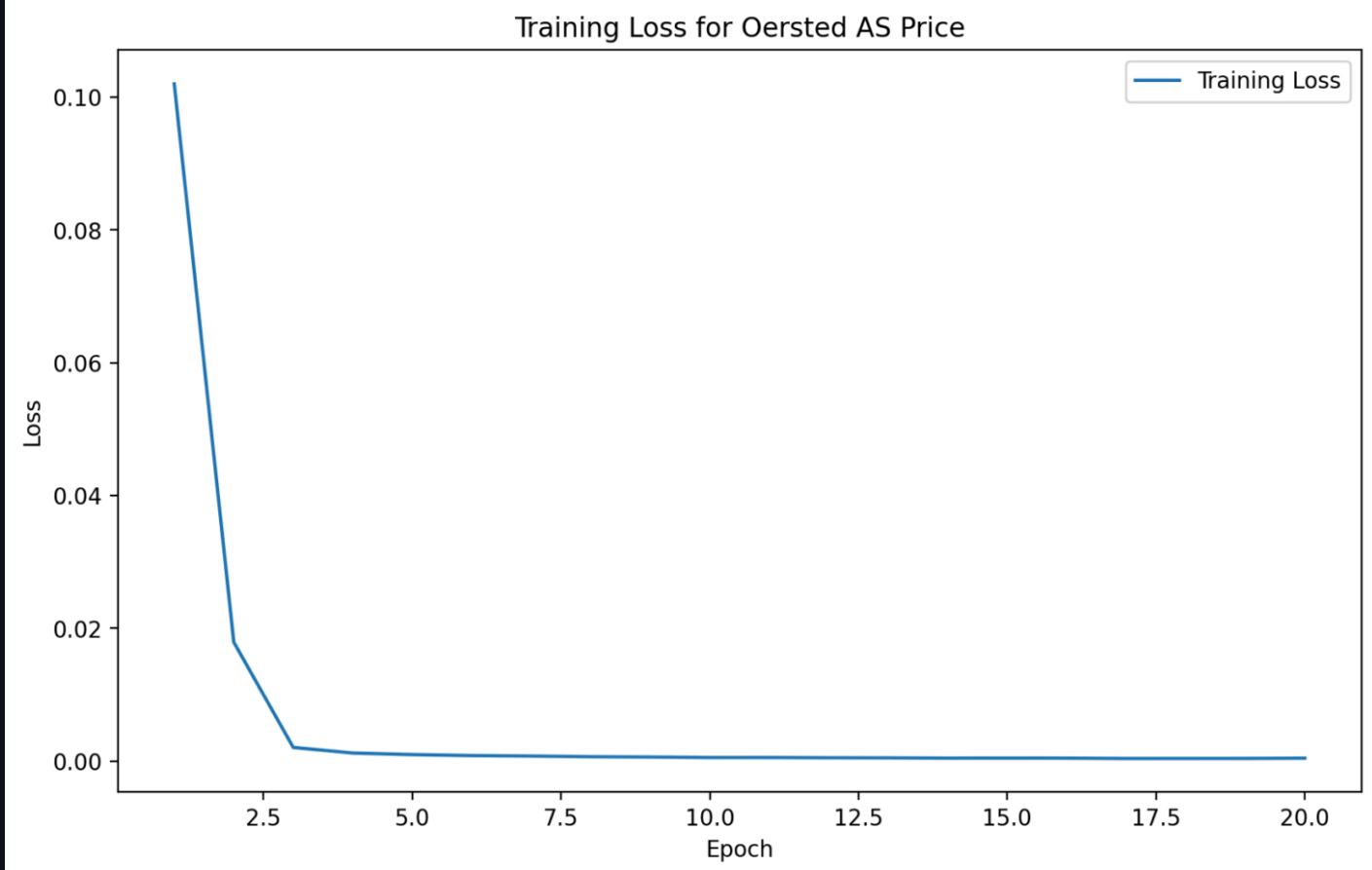
Epoch 16/20, Loss: 0.0005

Epoch 17/20, Loss: 0.0004

Epoch 18/20, Loss: 0.0004

Epoch 19/20, Loss: 0.0004

Epoch 20/20, Loss: 0.0005



Testing the Model for Oersted AS Price

Performance Metrics for Oersted AS Price

Mean Squared Error (MSE): 445.3416

Mean Absolute Error (MAE): 15.2953

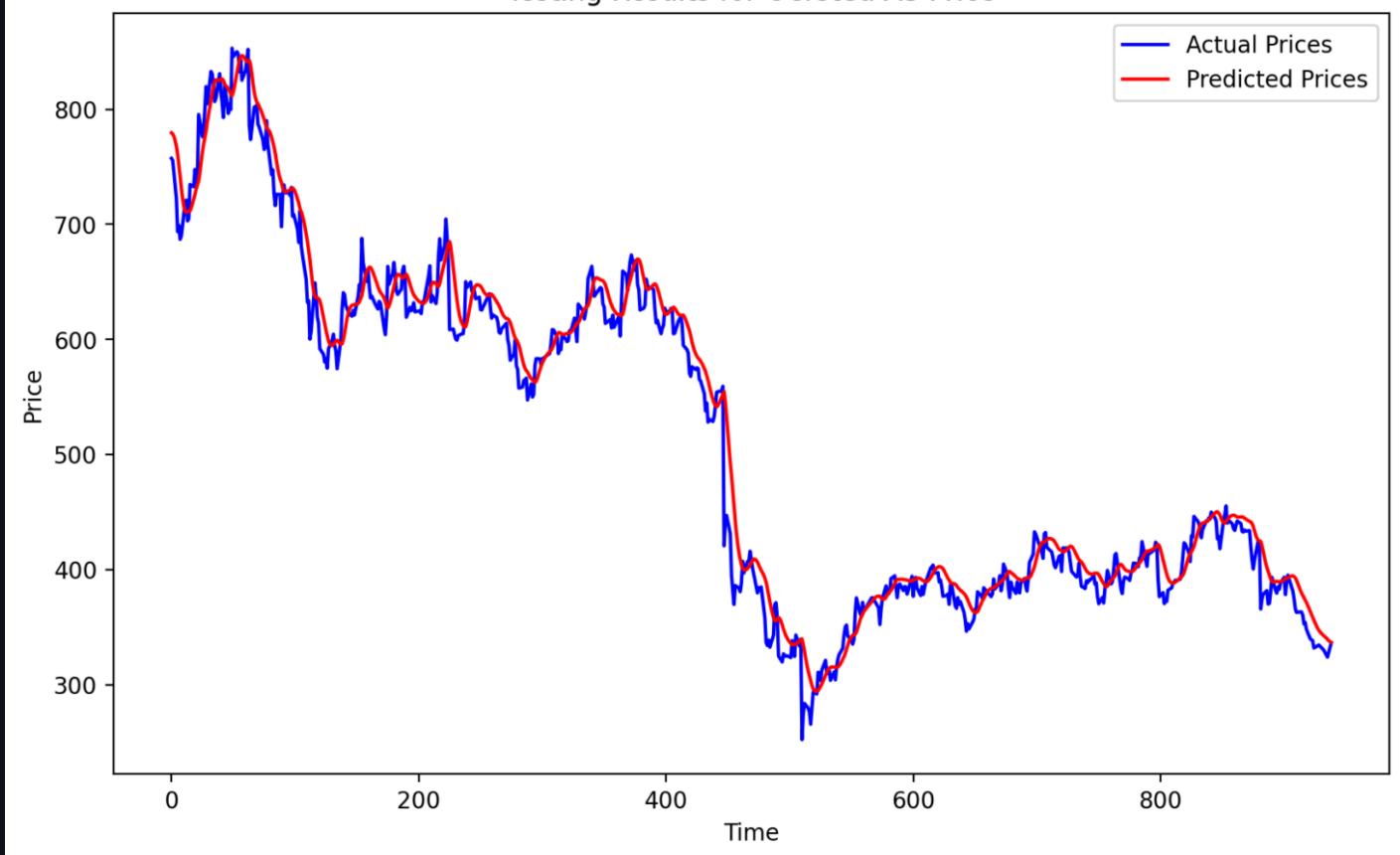
R-Squared (R2): 0.9794

Precision: 0.991130820399113

Recall: 1.0

F1 Score: 0.9955456570155902

Testing Results for Oersted AS Price



Market Trend Analysis for Oersted AS Price

Bull Market Average Prediction: 661.0535

Bear Market Average Prediction: 391.1187



Processing Stock: Pandora Price

Train and test datasets prepared for Pandora Price.

Training the Model for Pandora Price

Epoch 1/20, Loss: 0.0738

Epoch 2/20, Loss: 0.0132

Epoch 3/20, Loss: 0.0017

Epoch 4/20, Loss: 0.0007

Epoch 5/20, Loss: 0.0005

Epoch 6/20, Loss: 0.0005

Epoch 7/20, Loss: 0.0006

Epoch 8/20, Loss: 0.0005

Epoch 9/20, Loss: 0.0005

Epoch 10/20, Loss: 0.0005

Epoch 11/20, Loss: 0.0005

Epoch 12/20, Loss: 0.0005

Epoch 13/20, Loss: 0.0005

Epoch 14/20, Loss: 0.0004

Epoch 15/20, Loss: 0.0004

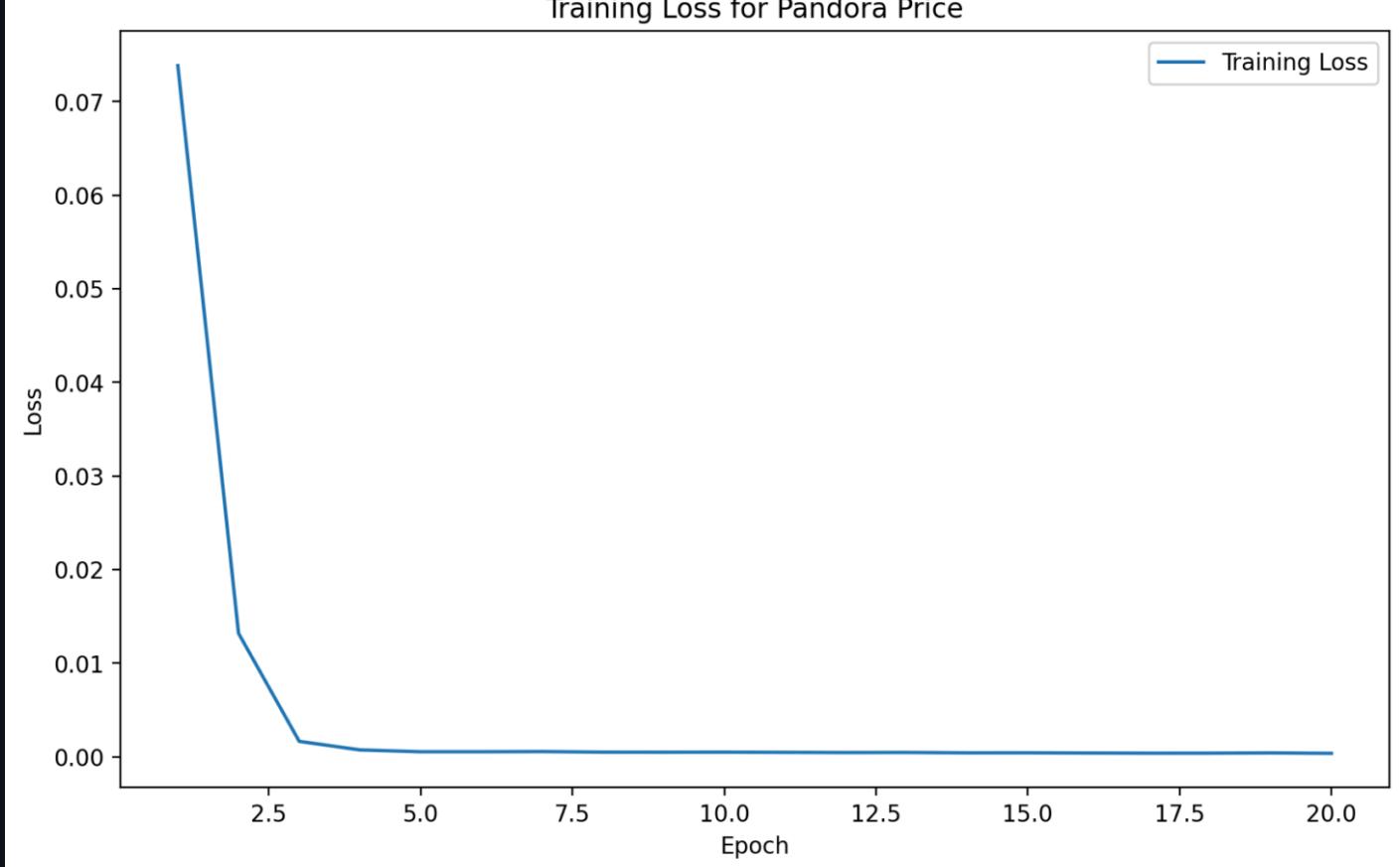
Epoch 16/20, Loss: 0.0004

Epoch 17/20, Loss: 0.0004

Epoch 18/20, Loss: 0.0004

Epoch 19/20, Loss: 0.0004

Epoch 20/20, Loss: 0.0004



Testing the Model for Pandora Price

Performance Metrics for Pandora Price

Mean Squared Error (MSE): 1267.2166

Mean Absolute Error (MAE): 27.0734

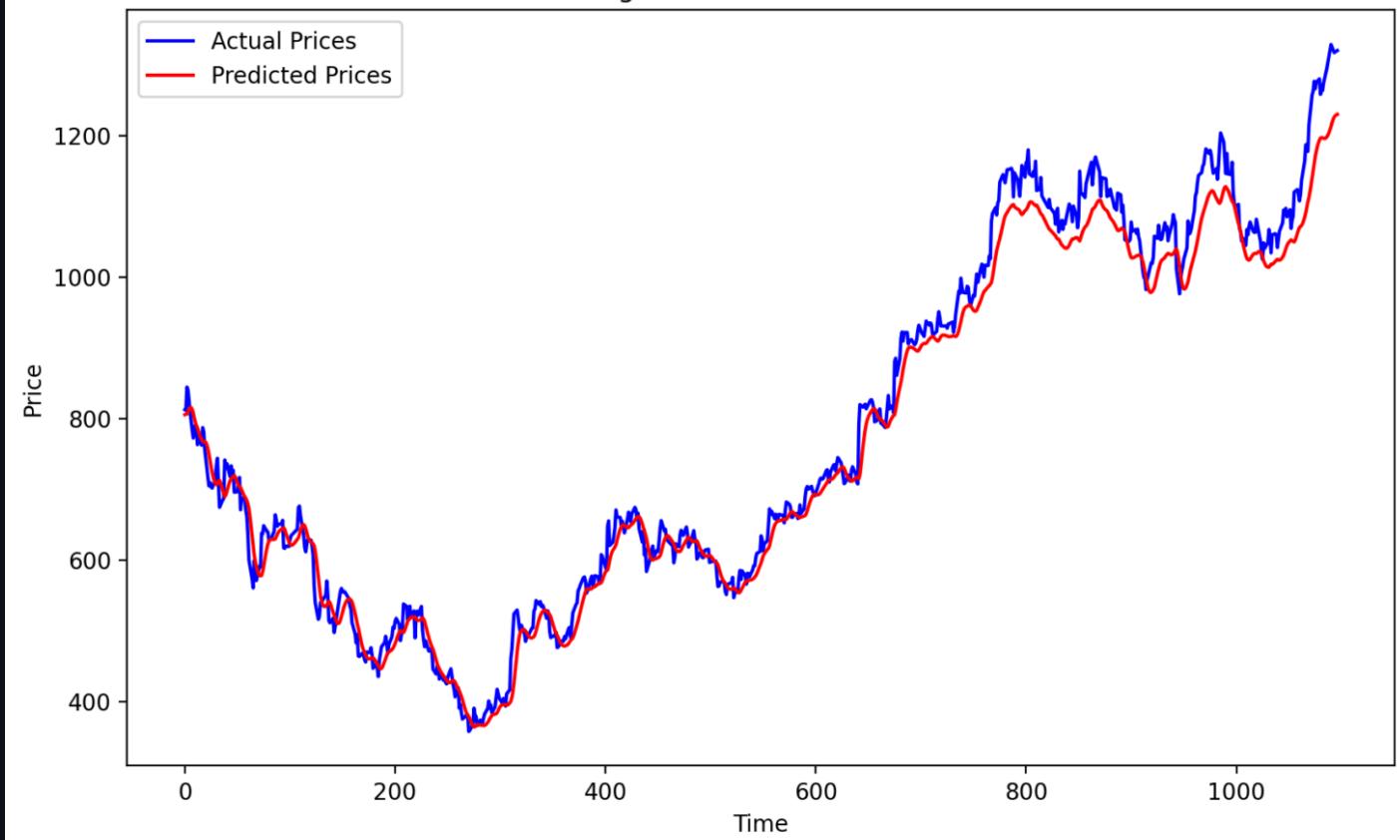
R-Squared (R²): 0.9810

Precision: 0.9935344827586207

Recall: 0.9829424307036247

F1 Score: 0.9882100750267953

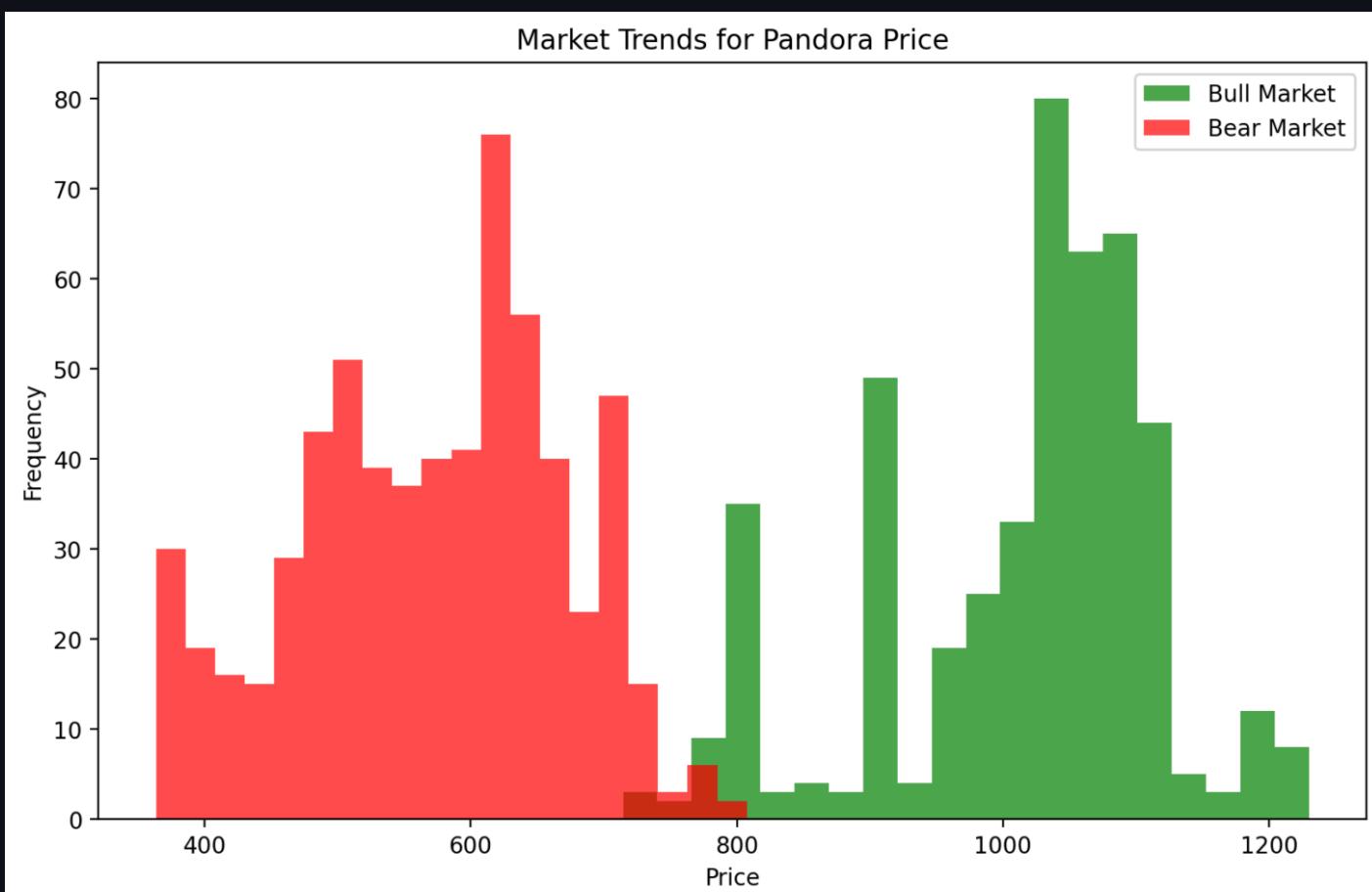
Testing Results for Pandora Price



Market Trend Analysis for Pandora Price

Bull Market Average Prediction: 1011.9314

Bear Market Average Prediction: 572.0225



Processing Stock: SAAB B Price

Train and test datasets prepared for SAAB B Price.

Training the Model for SAAB B Price

Epoch 1/20, Loss: 0.0748

Epoch 2/20, Loss: 0.0153

Epoch 3/20, Loss: 0.0029

Epoch 4/20, Loss: 0.0012

Epoch 5/20, Loss: 0.0010

Epoch 6/20, Loss: 0.0010

Epoch 7/20, Loss: 0.0009

Epoch 8/20, Loss: 0.0009

Epoch 9/20, Loss: 0.0008

Epoch 10/20, Loss: 0.0008

Epoch 11/20, Loss: 0.0007

Epoch 12/20, Loss: 0.0007

Epoch 13/20, Loss: 0.0007

Epoch 14/20, Loss: 0.0007

Epoch 15/20, Loss: 0.0006

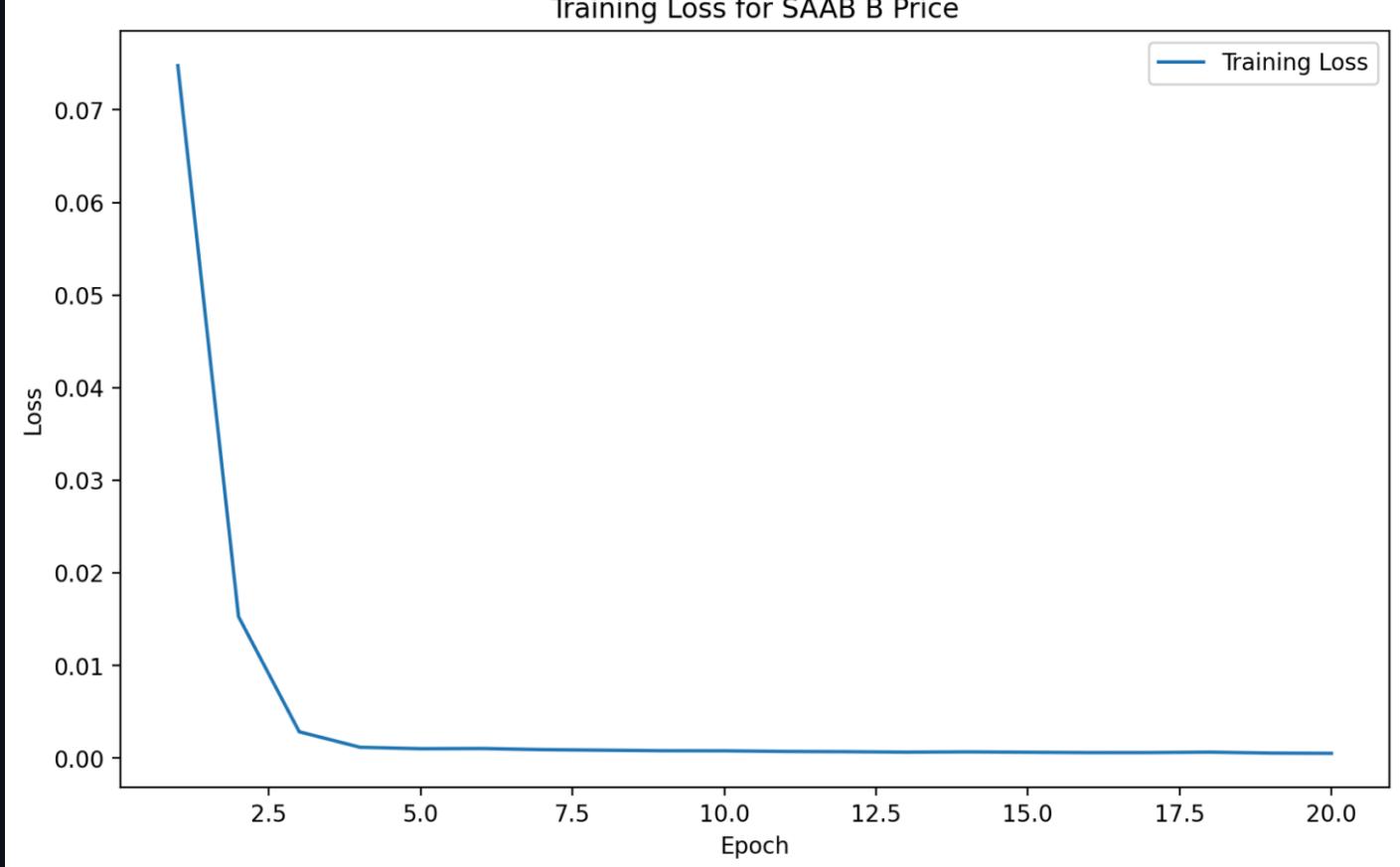
Epoch 16/20, Loss: 0.0006

Epoch 17/20, Loss: 0.0006

Epoch 18/20, Loss: 0.0007

Epoch 19/20, Loss: 0.0006

Epoch 20/20, Loss: 0.0005



Testing the Model for SAAB B Price

Performance Metrics for SAAB B Price

Mean Squared Error (MSE): 1824.2369

Mean Absolute Error (MAE): 23.4552

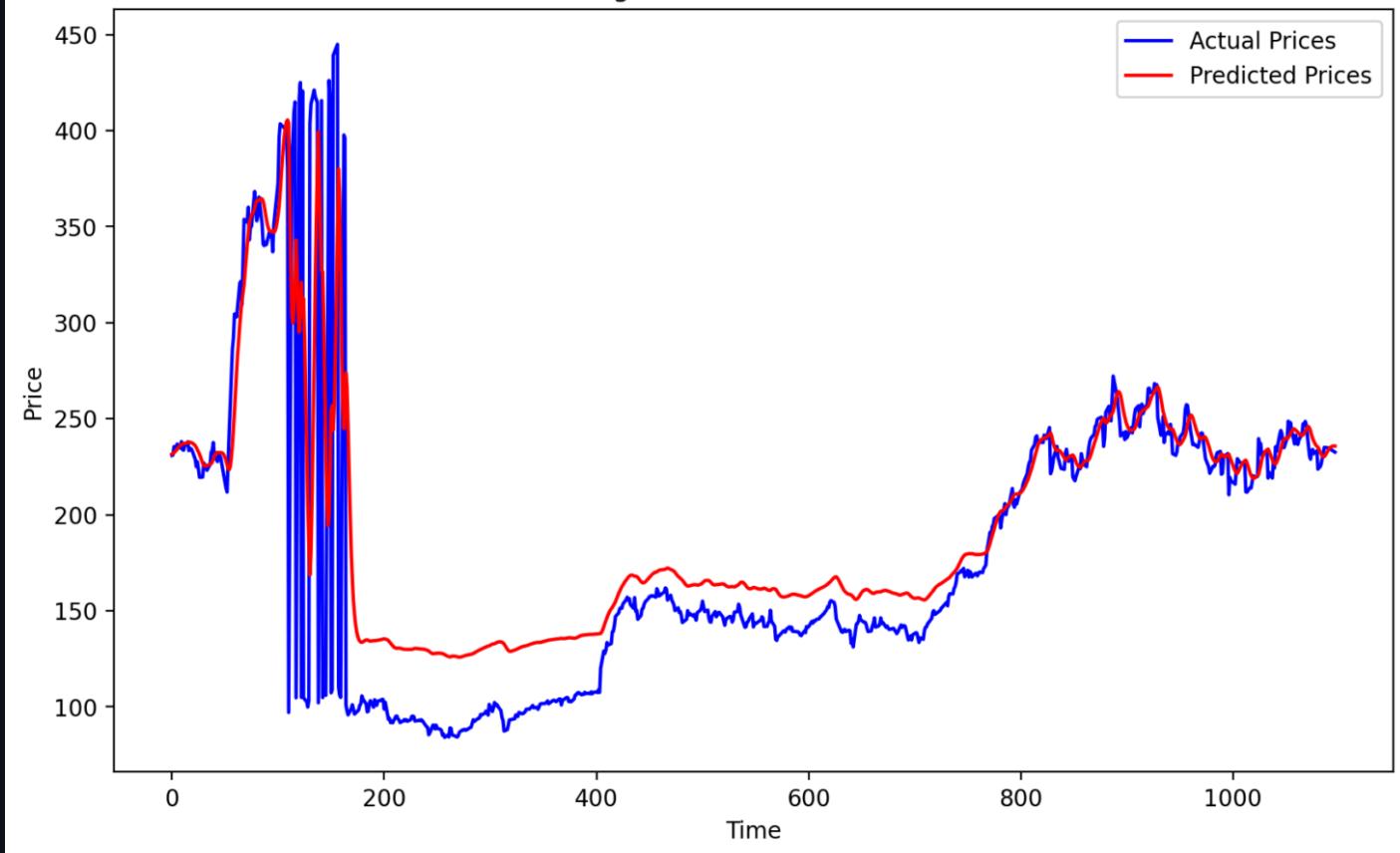
R-Squared (R2): 0.6897

Precision: 0.951417004048583

Recall: 0.9936575052854123

F1 Score: 0.9720785935884177

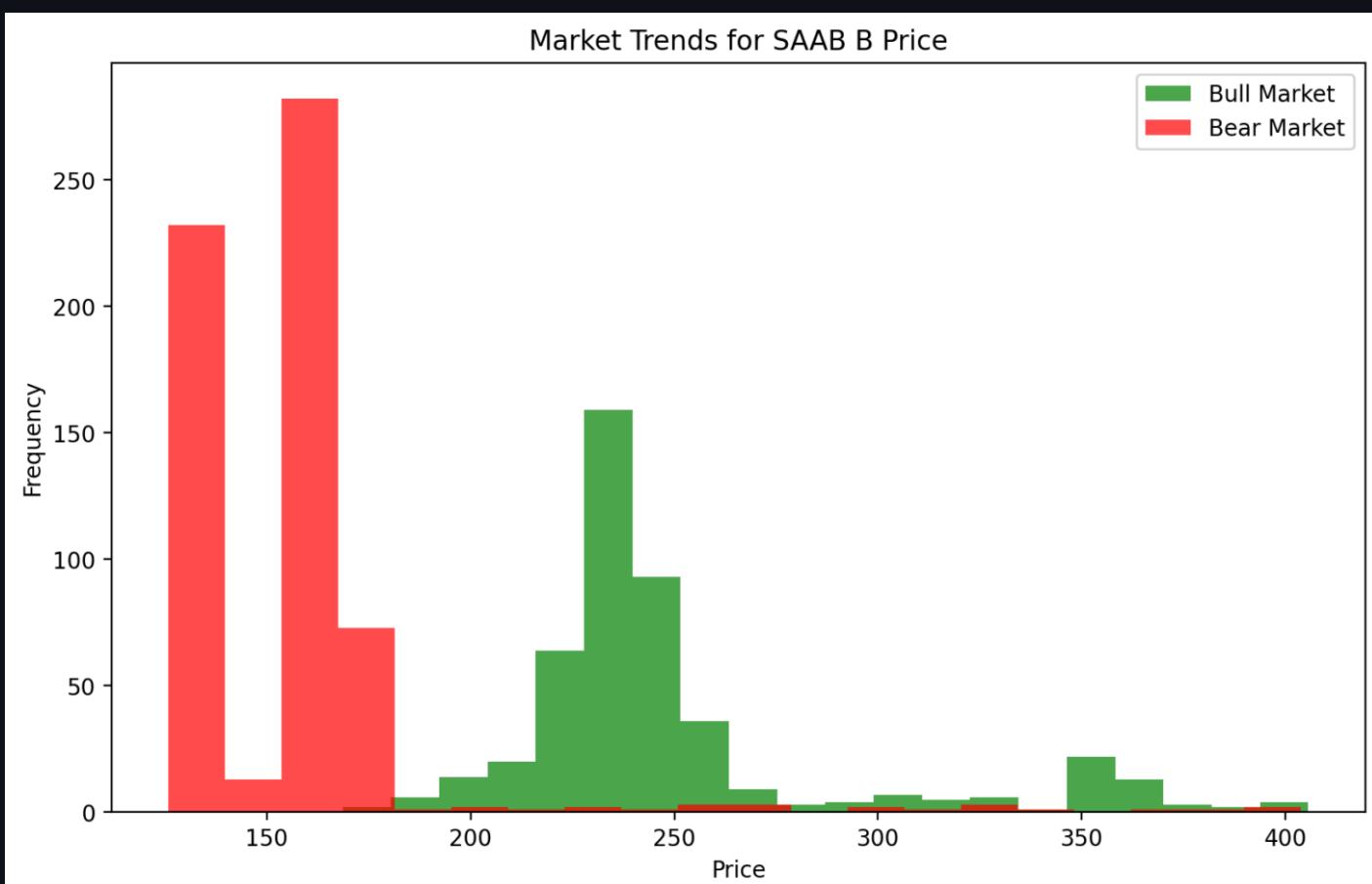
Testing Results for SAAB B Price



Market Trend Analysis for SAAB B Price

Bull Market Average Prediction: 250.0367

Bear Market Average Prediction: 156.4067



Processing Stock: Sampo Oyj A Price

Train and test datasets prepared for Sampo Oyj A Price.

Training the Model for Sampo Oyj A Price

Epoch 1/20, Loss: 0.0583

Epoch 2/20, Loss: 0.0164

Epoch 3/20, Loss: 0.0064

Epoch 4/20, Loss: 0.0018

Epoch 5/20, Loss: 0.0015

Epoch 6/20, Loss: 0.0012

Epoch 7/20, Loss: 0.0012

Epoch 8/20, Loss: 0.0011

Epoch 9/20, Loss: 0.0011

Epoch 10/20, Loss: 0.0010

Epoch 11/20, Loss: 0.0010

Epoch 12/20, Loss: 0.0009

Epoch 13/20, Loss: 0.0009

Epoch 14/20, Loss: 0.0008

Epoch 15/20, Loss: 0.0008

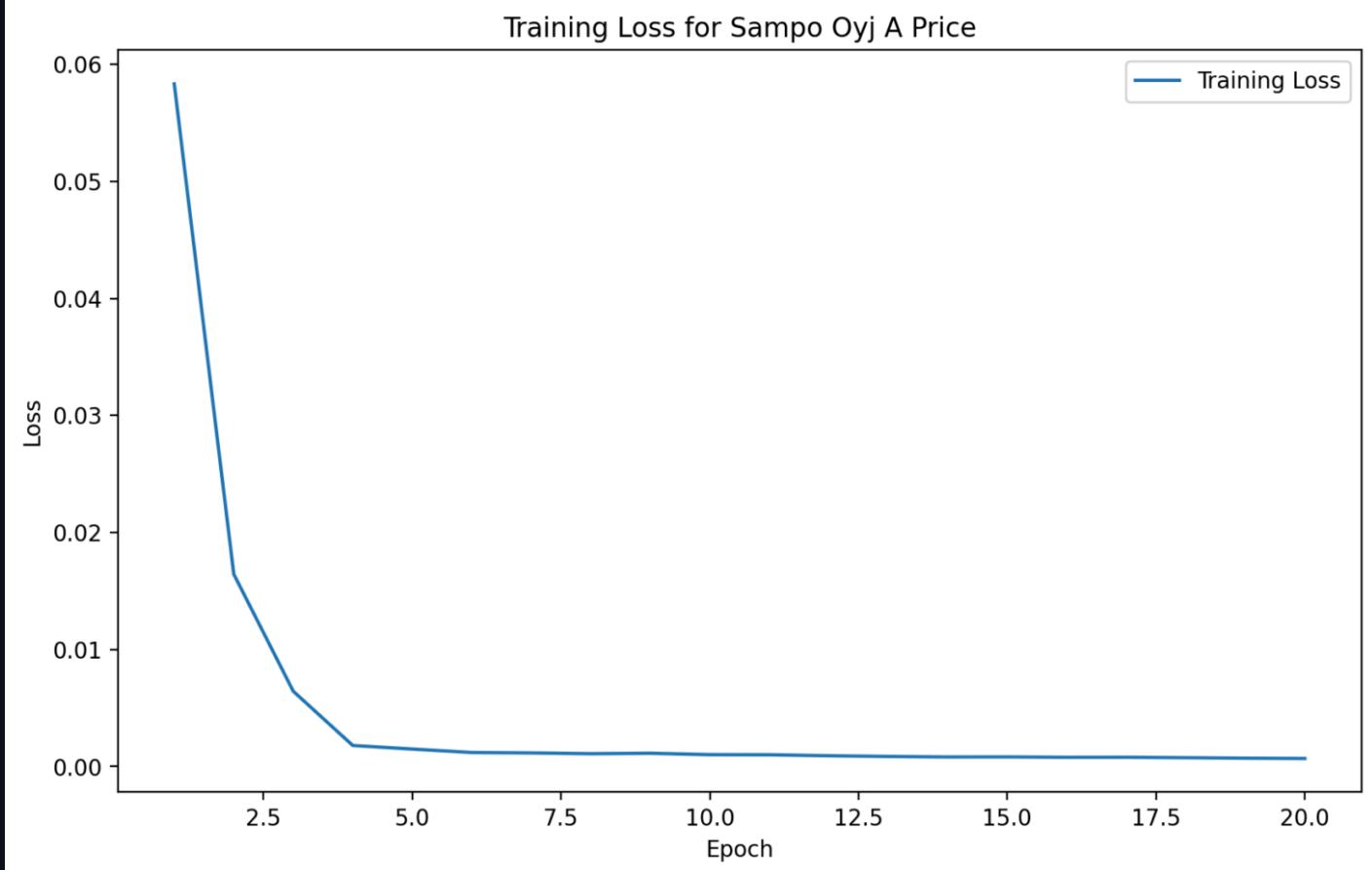
Epoch 16/20, Loss: 0.0008

Epoch 17/20, Loss: 0.0008

Epoch 18/20, Loss: 0.0008

Epoch 19/20, Loss: 0.0007

Epoch 20/20, Loss: 0.0007



Testing the Model for Sampo Oyj A Price

Performance Metrics for Sampo Oyj A Price

Mean Squared Error (MSE): 0.3975

Mean Absolute Error (MAE): 0.4665

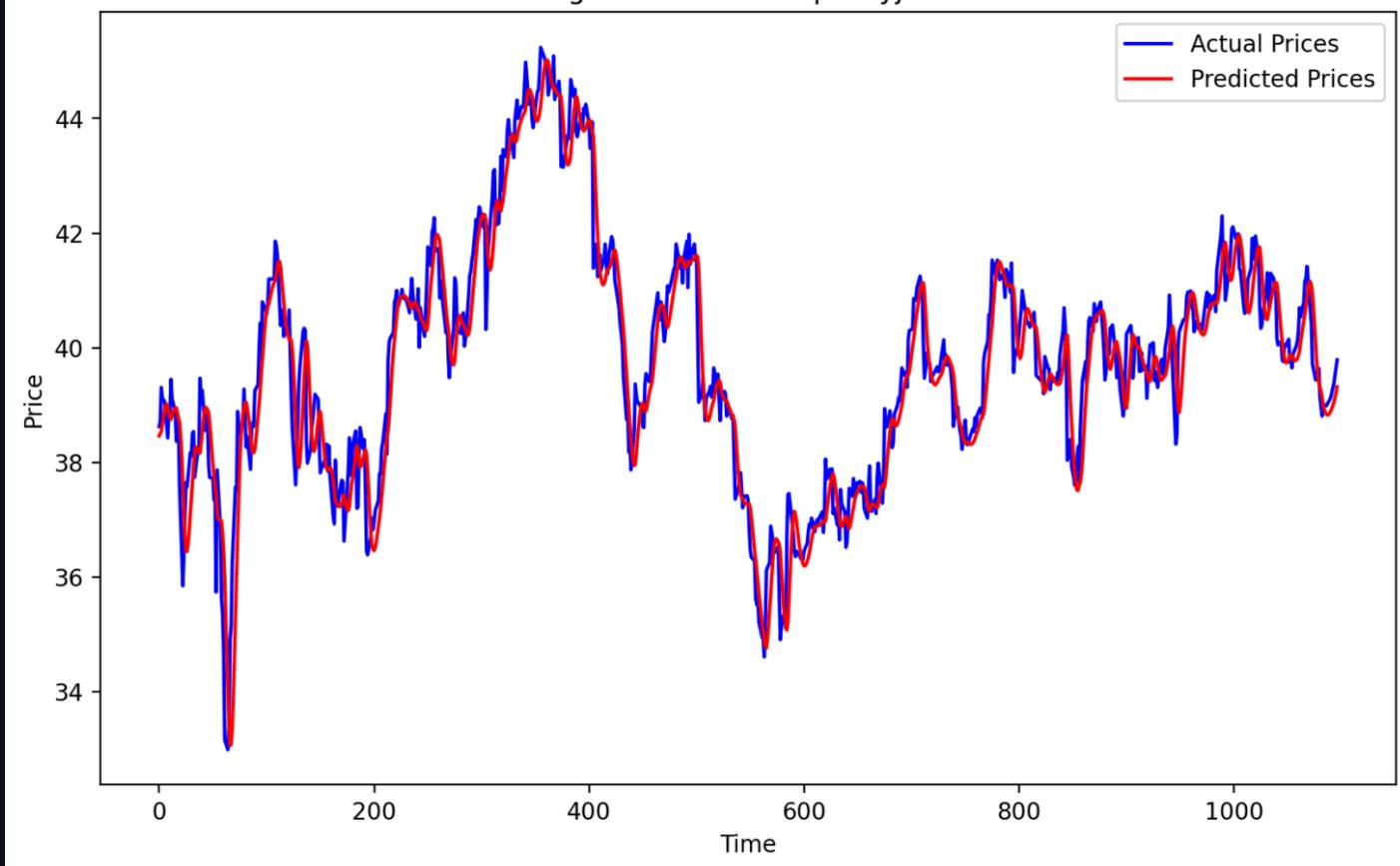
R-Squared (R²): 0.9079

Precision: 0.9057301293900185

Recall: 0.8909090909090909

F1 Score: 0.8982584784601283

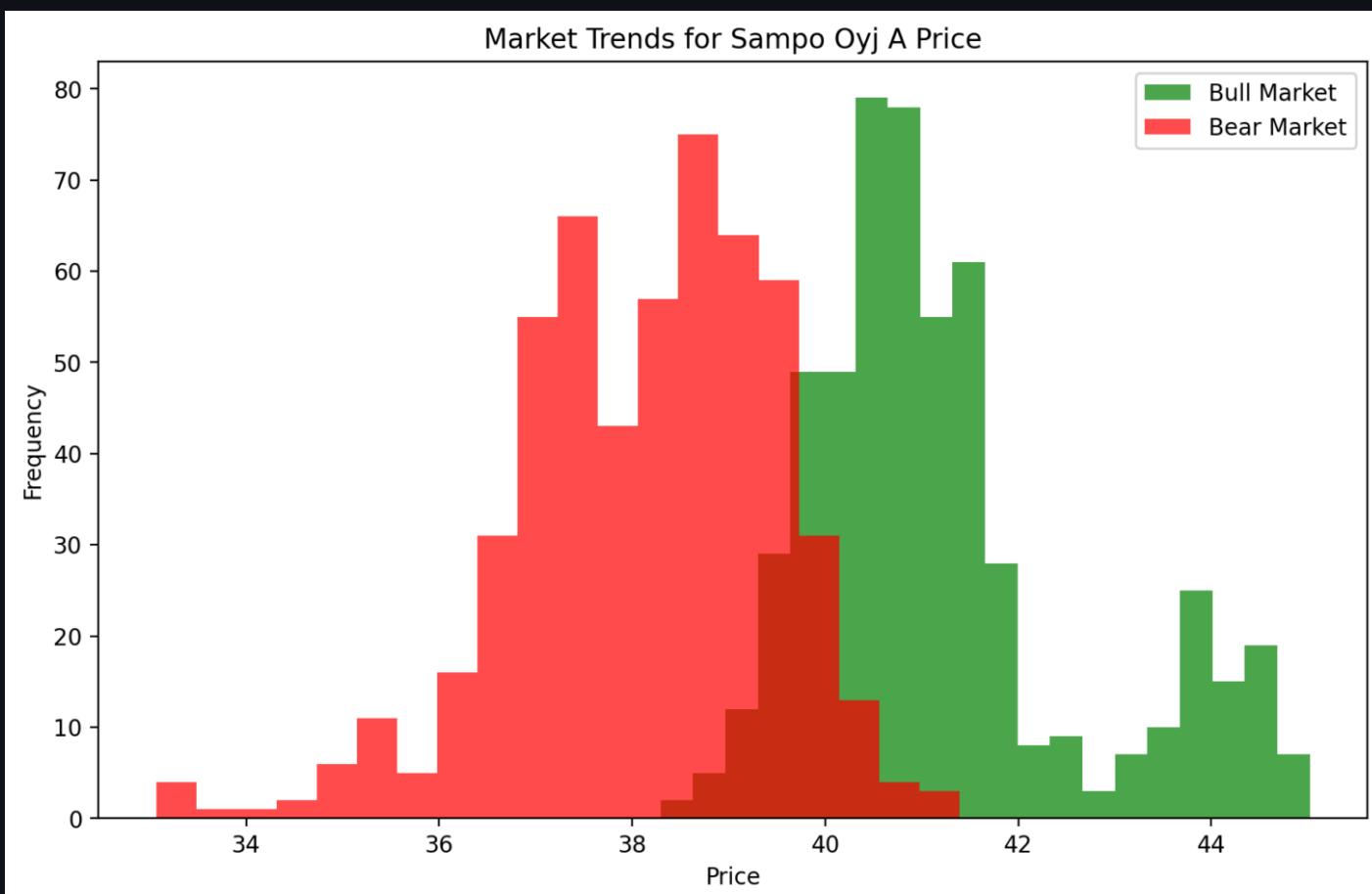
Testing Results for Sampo Oyj A Price



Market Trend Analysis for Sampo Oyj A Price

Bull Market Average Prediction: 41.1891

Bear Market Average Prediction: 38.1343



Processing Stock: Sandvik AB Price

Train and test datasets prepared for Sandvik AB Price.

Training the Model for Sandvik AB Price

Epoch 1/20, Loss: 0.1147

Epoch 2/20, Loss: 0.0181

Epoch 3/20, Loss: 0.0022

Epoch 4/20, Loss: 0.0011

Epoch 5/20, Loss: 0.0010

Epoch 6/20, Loss: 0.0009

Epoch 7/20, Loss: 0.0008

Epoch 8/20, Loss: 0.0007

Epoch 9/20, Loss: 0.0008

Epoch 10/20, Loss: 0.0007

Epoch 11/20, Loss: 0.0006

Epoch 12/20, Loss: 0.0006

Epoch 13/20, Loss: 0.0006

Epoch 14/20, Loss: 0.0006

Epoch 15/20, Loss: 0.0006

Epoch 16/20, Loss: 0.0005

Epoch 17/20, Loss: 0.0005

Epoch 18/20, Loss: 0.0005

Epoch 19/20, Loss: 0.0005

Epoch 20/20, Loss: 0.0004



Testing the Model for Sandvik AB Price

Performance Metrics for Sandvik AB Price

Mean Squared Error (MSE): 40.6647

Mean Absolute Error (MAE): 5.0763

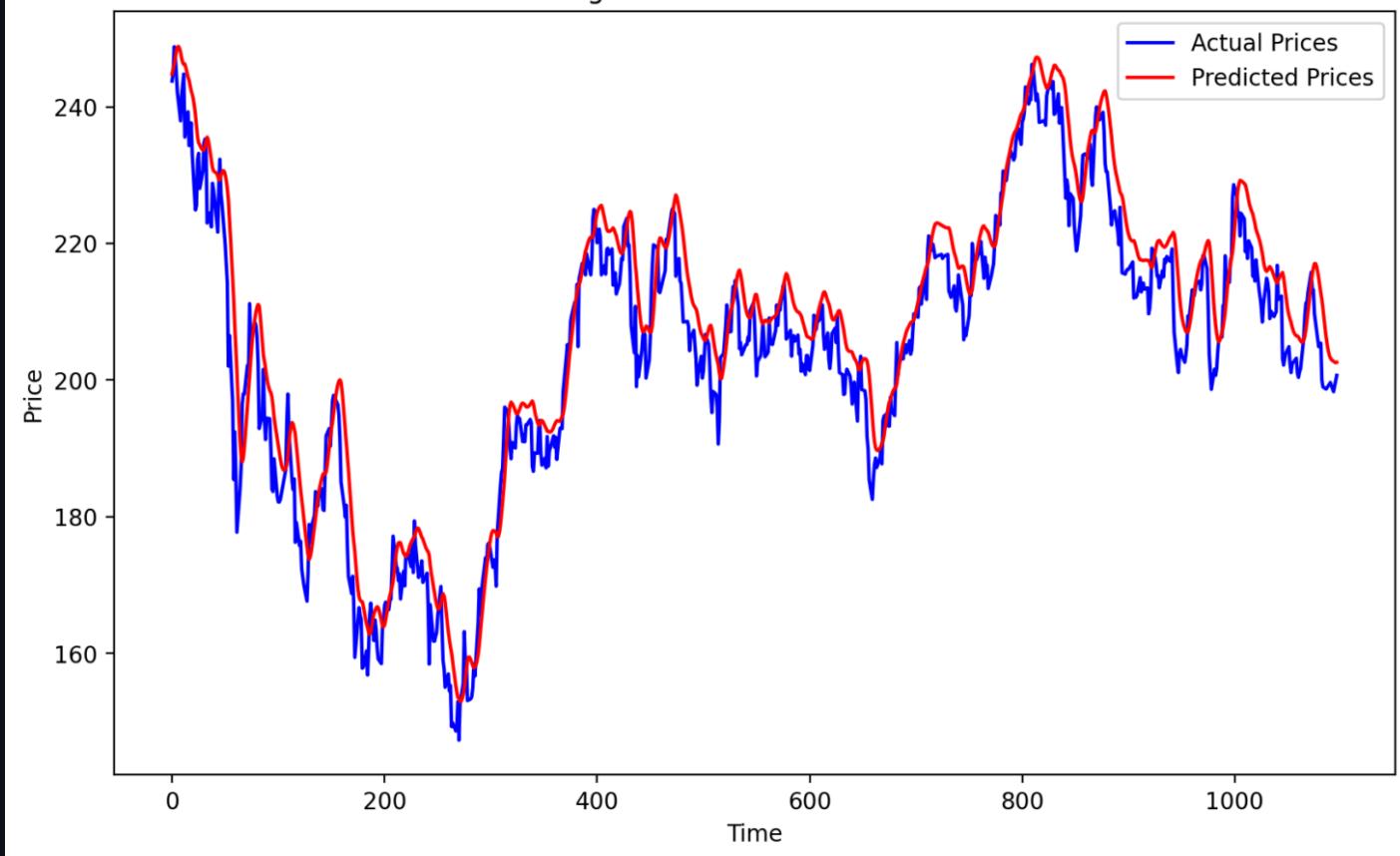
R-Squared (R²): 0.9069

Precision: 0.8342465753424657

Recall: 0.9902439024390244

F1 Score: 0.9055762081784386

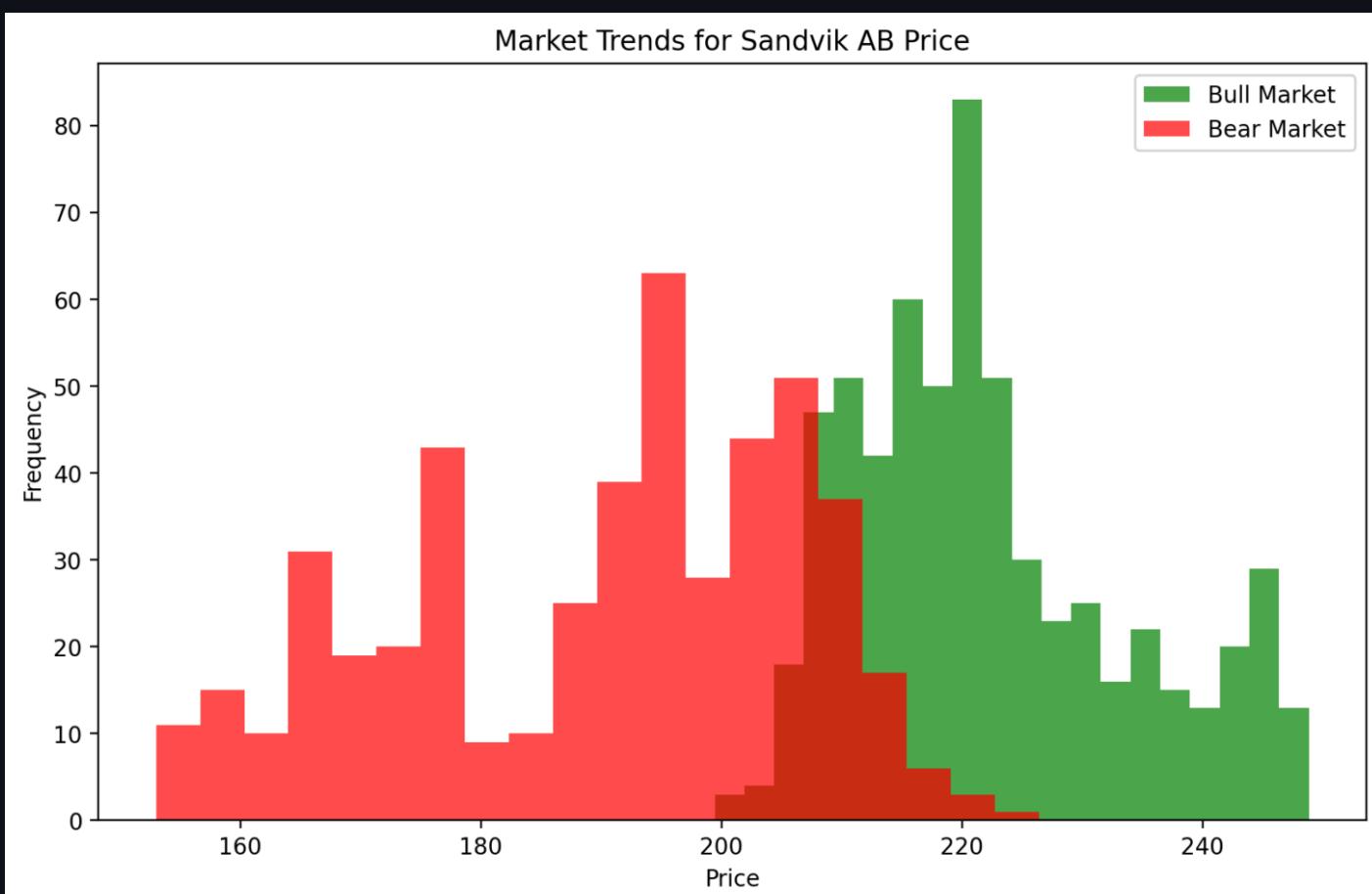
Testing Results for Sandvik AB Price



Market Trend Analysis for Sandvik AB Price

Bull Market Average Prediction: 222.0985

Bear Market Average Prediction: 190.2013



Processing Stock: SCA B Price

Train and test datasets prepared for SCA B Price.

Training the Model for SCA B Price

Epoch 1/20, Loss: 0.0403

Epoch 2/20, Loss: 0.0034

Epoch 3/20, Loss: 0.0004

Epoch 4/20, Loss: 0.0003

Epoch 5/20, Loss: 0.0003

Epoch 6/20, Loss: 0.0002

Epoch 7/20, Loss: 0.0002

Epoch 8/20, Loss: 0.0002

Epoch 9/20, Loss: 0.0002

Epoch 10/20, Loss: 0.0002

Epoch 11/20, Loss: 0.0002

Epoch 12/20, Loss: 0.0002

Epoch 13/20, Loss: 0.0002

Epoch 14/20, Loss: 0.0002

Epoch 15/20, Loss: 0.0002

Epoch 16/20, Loss: 0.0002

Epoch 17/20, Loss: 0.0002

Epoch 18/20, Loss: 0.0002

Epoch 19/20, Loss: 0.0002

Epoch 20/20, Loss: 0.0002



Testing the Model for SCA B Price

Performance Metrics for SCA B Price

Mean Squared Error (MSE): 15.6399

Mean Absolute Error (MAE): 3.0324

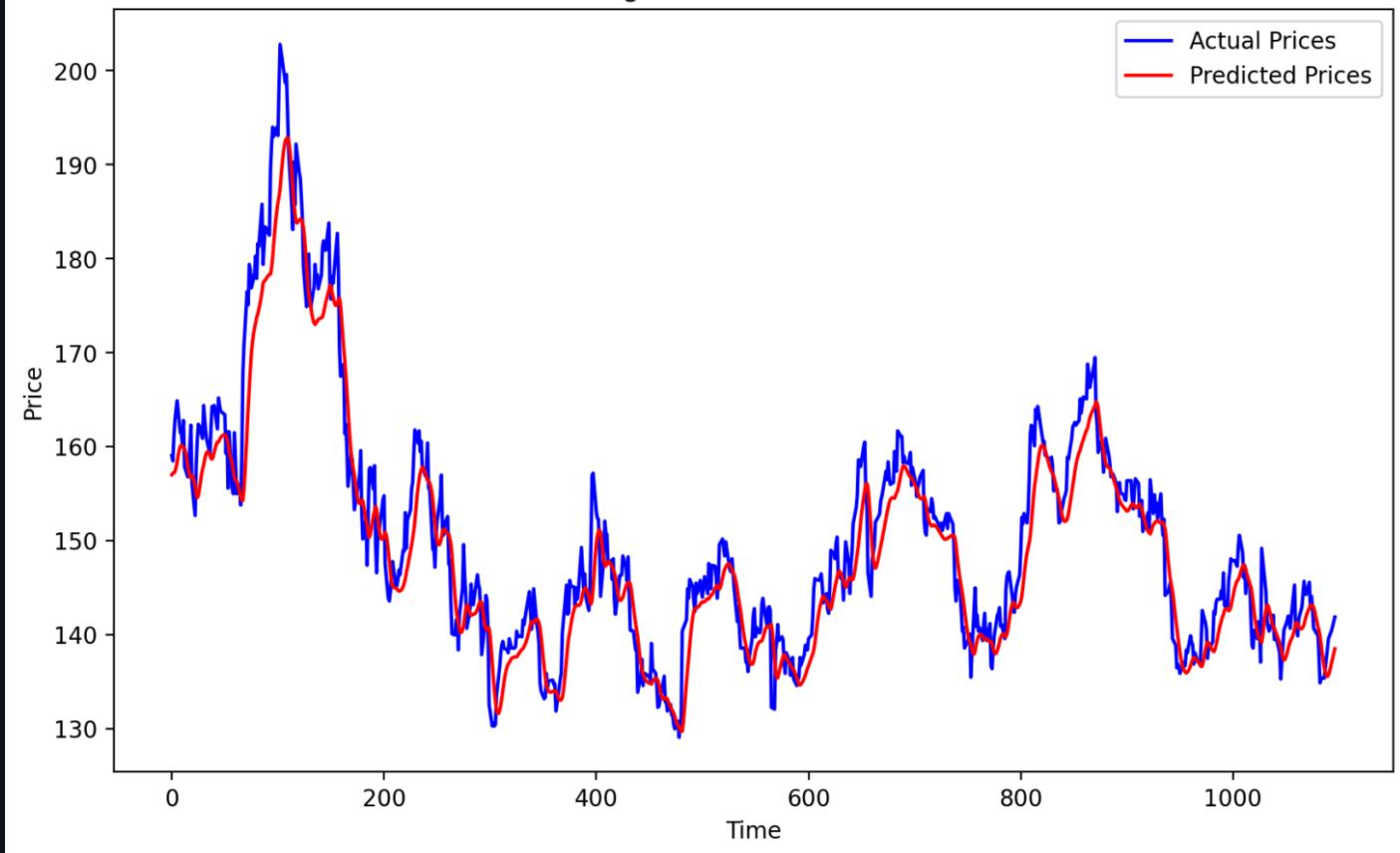
R-Squared (R²): 0.9111

Precision: 0.9561200923787528

Recall: 0.8865096359743041

F1 Score: 0.92

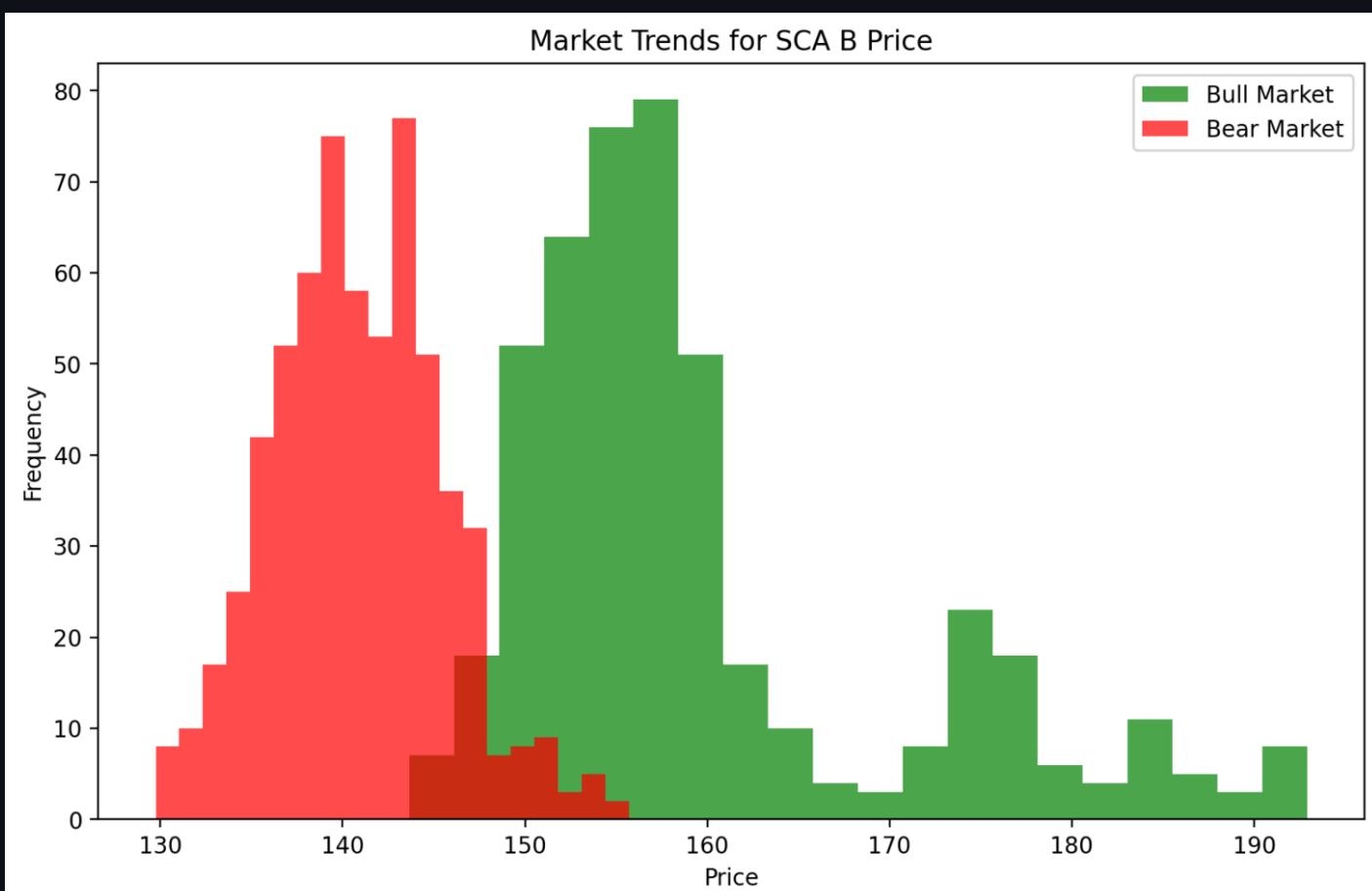
Testing Results for SCA B Price



Market Trend Analysis for SCA B Price

Bull Market Average Prediction: 159.6027

Bear Market Average Prediction: 140.8972



Processing Stock: SEB A Price

Train and test datasets prepared for SEB A Price.

Training the Model for SEB A Price

Epoch 1/20, Loss: 0.0238

Epoch 2/20, Loss: 0.0100

Epoch 3/20, Loss: 0.0017

Epoch 4/20, Loss: 0.0009

Epoch 5/20, Loss: 0.0009

Epoch 6/20, Loss: 0.0008

Epoch 7/20, Loss: 0.0007

Epoch 8/20, Loss: 0.0007

Epoch 9/20, Loss: 0.0006

Epoch 10/20, Loss: 0.0006

Epoch 11/20, Loss: 0.0006

Epoch 12/20, Loss: 0.0005

Epoch 13/20, Loss: 0.0005

Epoch 14/20, Loss: 0.0005

Epoch 15/20, Loss: 0.0005

Epoch 16/20, Loss: 0.0004

Epoch 17/20, Loss: 0.0004

Epoch 18/20, Loss: 0.0004

Epoch 19/20, Loss: 0.0004

Epoch 20/20, Loss: 0.0004



Testing the Model for SEB A Price

Performance Metrics for SEB A Price

Mean Squared Error (MSE): 6.8399

Mean Absolute Error (MAE): 2.0751

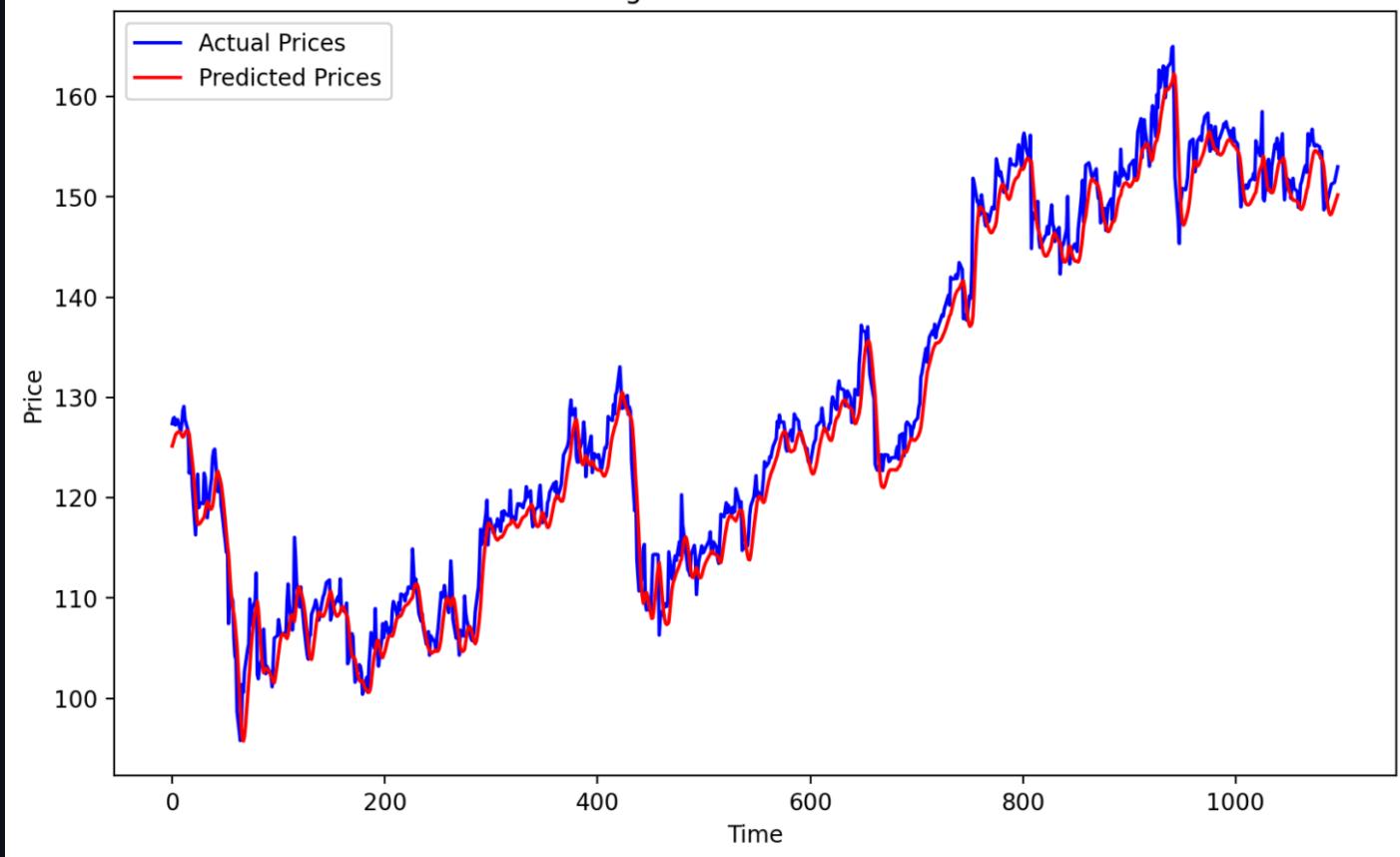
R-Squared (R²): 0.9788

Precision: 0.992822966507177

Recall: 0.9367945823927766

F1 Score: 0.9639953542392566

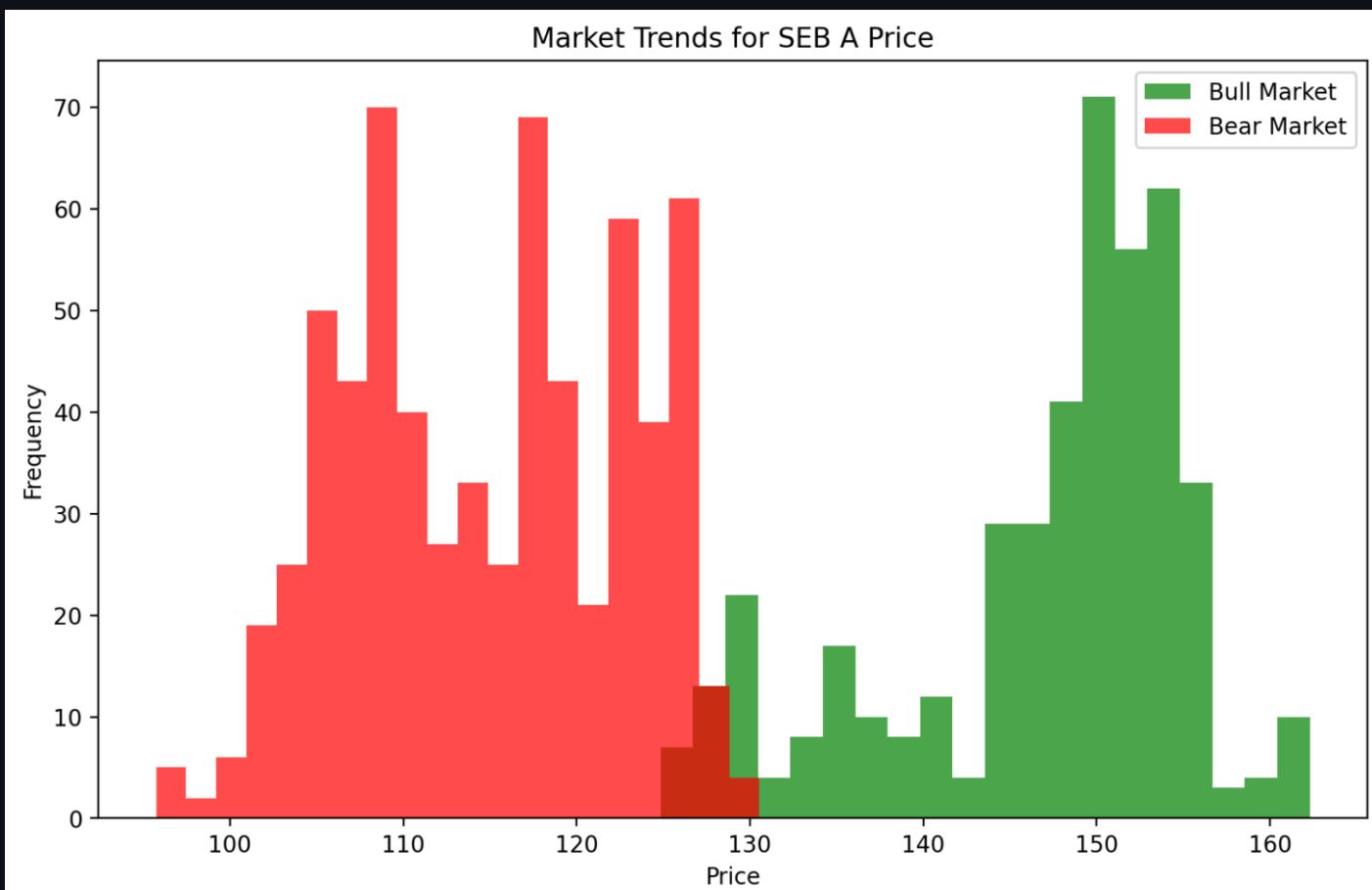
Testing Results for SEB A Price



Market Trend Analysis for SEB A Price

Bull Market Average Prediction: 146.9461

Bear Market Average Prediction: 114.9036



Processing Stock: Svenska Handelsbanken A Price

Train and test datasets prepared for Svenska Handelsbanken A Price.

Training the Model for Svenska Handelsbanken A Price

Epoch 1/20, Loss: 0.0936

Epoch 2/20, Loss: 0.0147

Epoch 3/20, Loss: 0.0030

Epoch 4/20, Loss: 0.0021

Epoch 5/20, Loss: 0.0018

Epoch 6/20, Loss: 0.0017

Epoch 7/20, Loss: 0.0016

Epoch 8/20, Loss: 0.0016

Epoch 9/20, Loss: 0.0014

Epoch 10/20, Loss: 0.0014

Epoch 11/20, Loss: 0.0013

Epoch 12/20, Loss: 0.0012

Epoch 13/20, Loss: 0.0013

Epoch 14/20, Loss: 0.0012

Epoch 15/20, Loss: 0.0011

Epoch 16/20, Loss: 0.0011

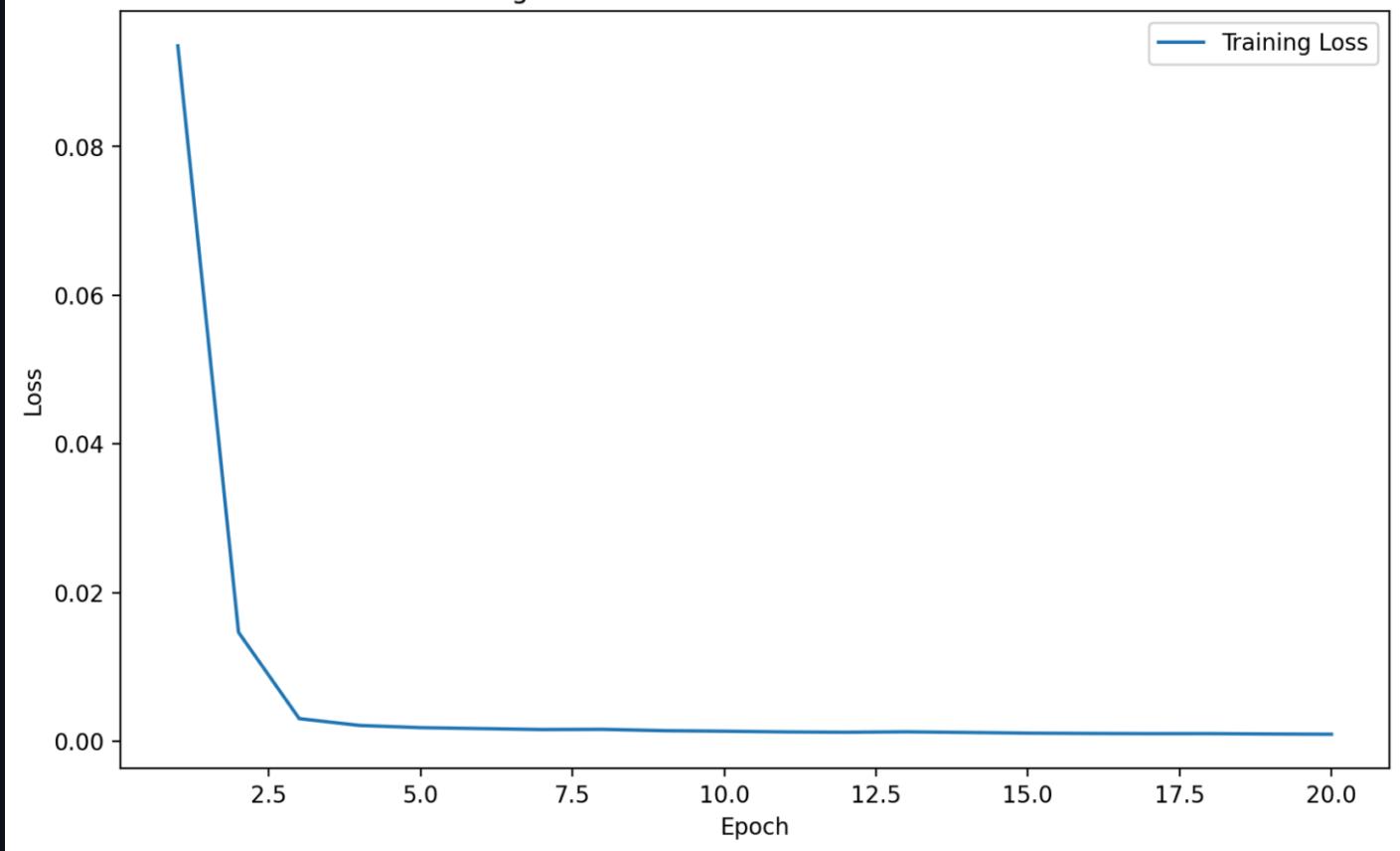
Epoch 17/20, Loss: 0.0010

Epoch 18/20, Loss: 0.0010

Epoch 19/20, Loss: 0.0010

Epoch 20/20, Loss: 0.0010

Training Loss for Svenska Handelsbanken A Price



Testing the Model for Svenska Handelsbanken A Price

Performance Metrics for Svenska Handelsbanken A Price

Mean Squared Error (MSE): 4.2992

Mean Absolute Error (MAE): 1.4623

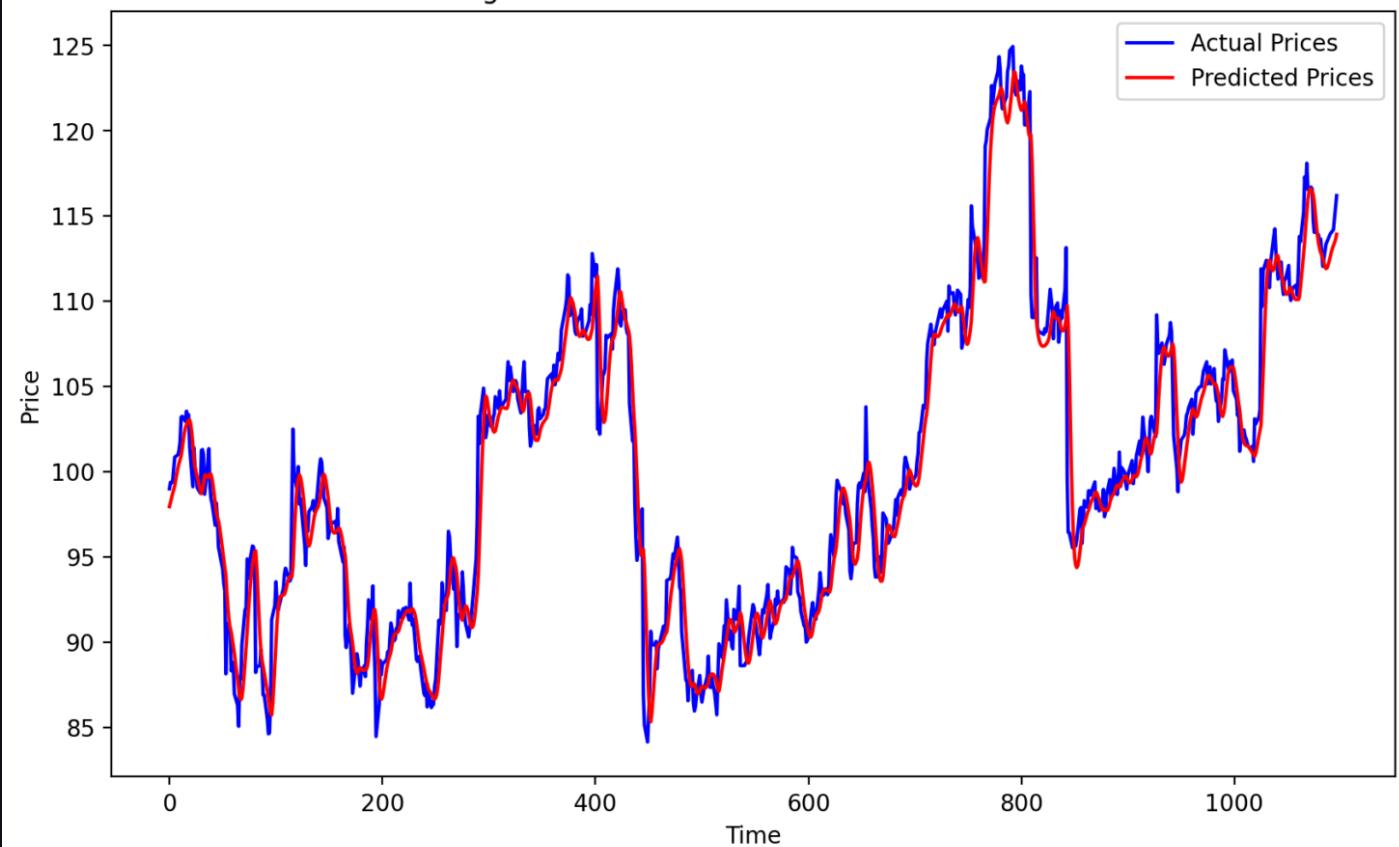
R-Squared (R2): 0.9469

Precision: 0.971252566735113

Recall: 0.923828125

F1 Score: 0.9469469469469469

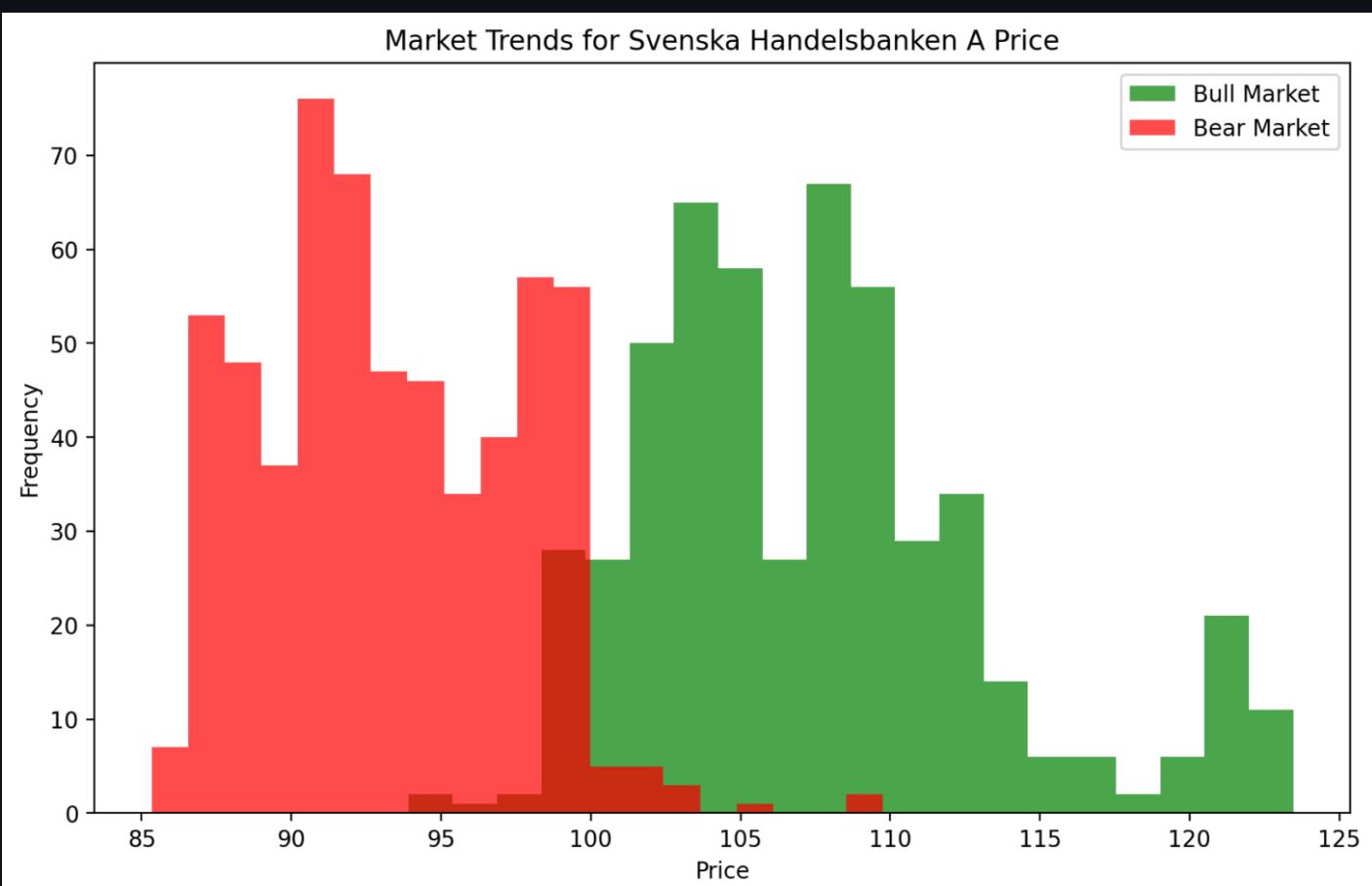
Testing Results for Svenska Handelsbanken A Price



Market Trend Analysis for Svenska Handelsbanken A Price

Bull Market Average Prediction: 107.4202

Bear Market Average Prediction: 93.3355



Processing Stock: Swedbank A Price

Train and test datasets prepared for Swedbank A Price.

Training the Model for Swedbank A Price

Epoch 1/20, Loss: 0.0977

Epoch 2/20, Loss: 0.0174

Epoch 3/20, Loss: 0.0030

Epoch 4/20, Loss: 0.0018

Epoch 5/20, Loss: 0.0016

Epoch 6/20, Loss: 0.0016

Epoch 7/20, Loss: 0.0015

Epoch 8/20, Loss: 0.0014

Epoch 9/20, Loss: 0.0013

Epoch 10/20, Loss: 0.0013

Epoch 11/20, Loss: 0.0012

Epoch 12/20, Loss: 0.0012

Epoch 13/20, Loss: 0.0011

Epoch 14/20, Loss: 0.0010

Epoch 15/20, Loss: 0.0010

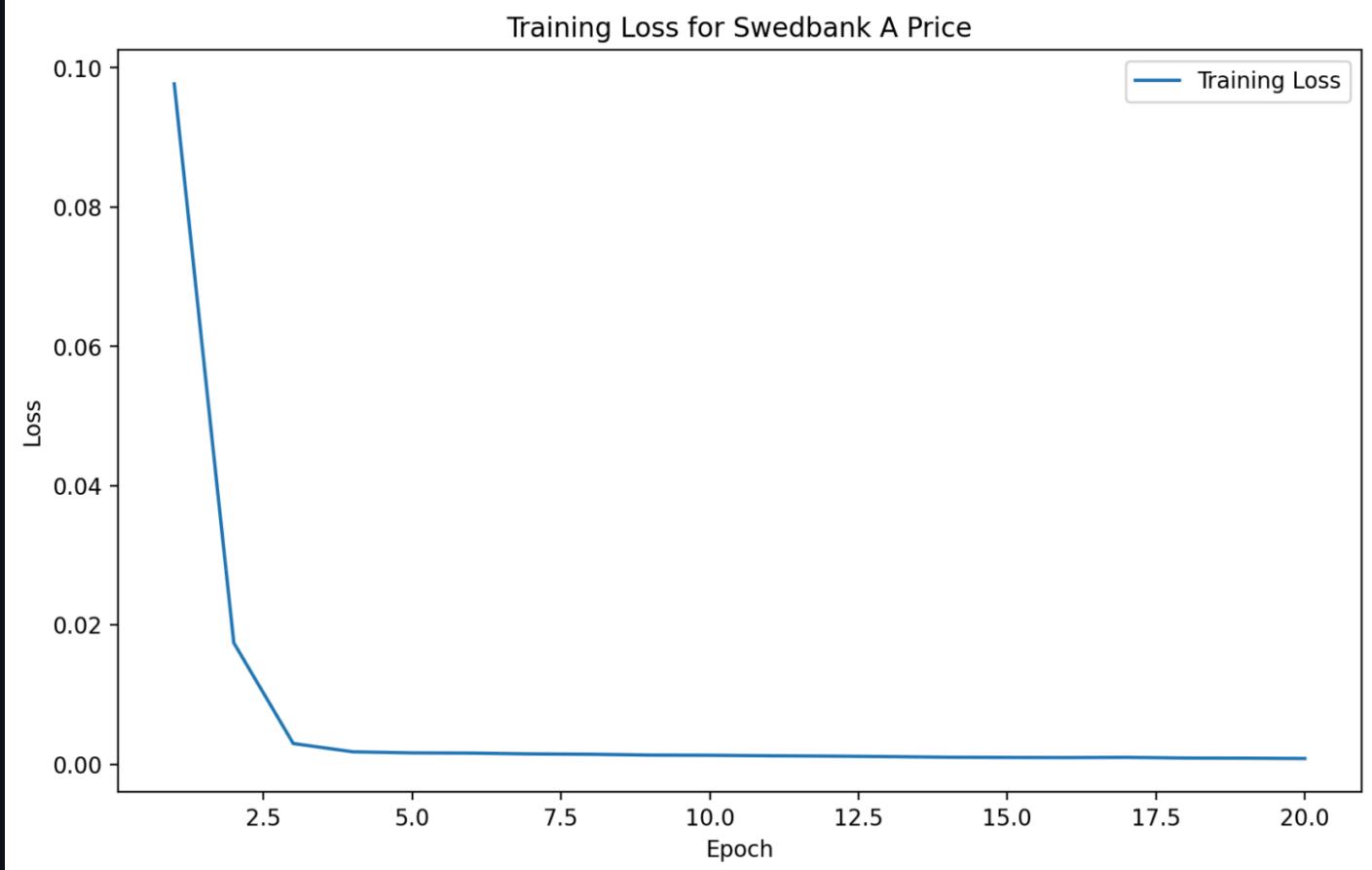
Epoch 16/20, Loss: 0.0010

Epoch 17/20, Loss: 0.0010

Epoch 18/20, Loss: 0.0009

Epoch 19/20, Loss: 0.0009

Epoch 20/20, Loss: 0.0008



Testing the Model for Swedbank A Price

Performance Metrics for Swedbank A Price

Mean Squared Error (MSE): 13.3420

Mean Absolute Error (MAE): 2.7044

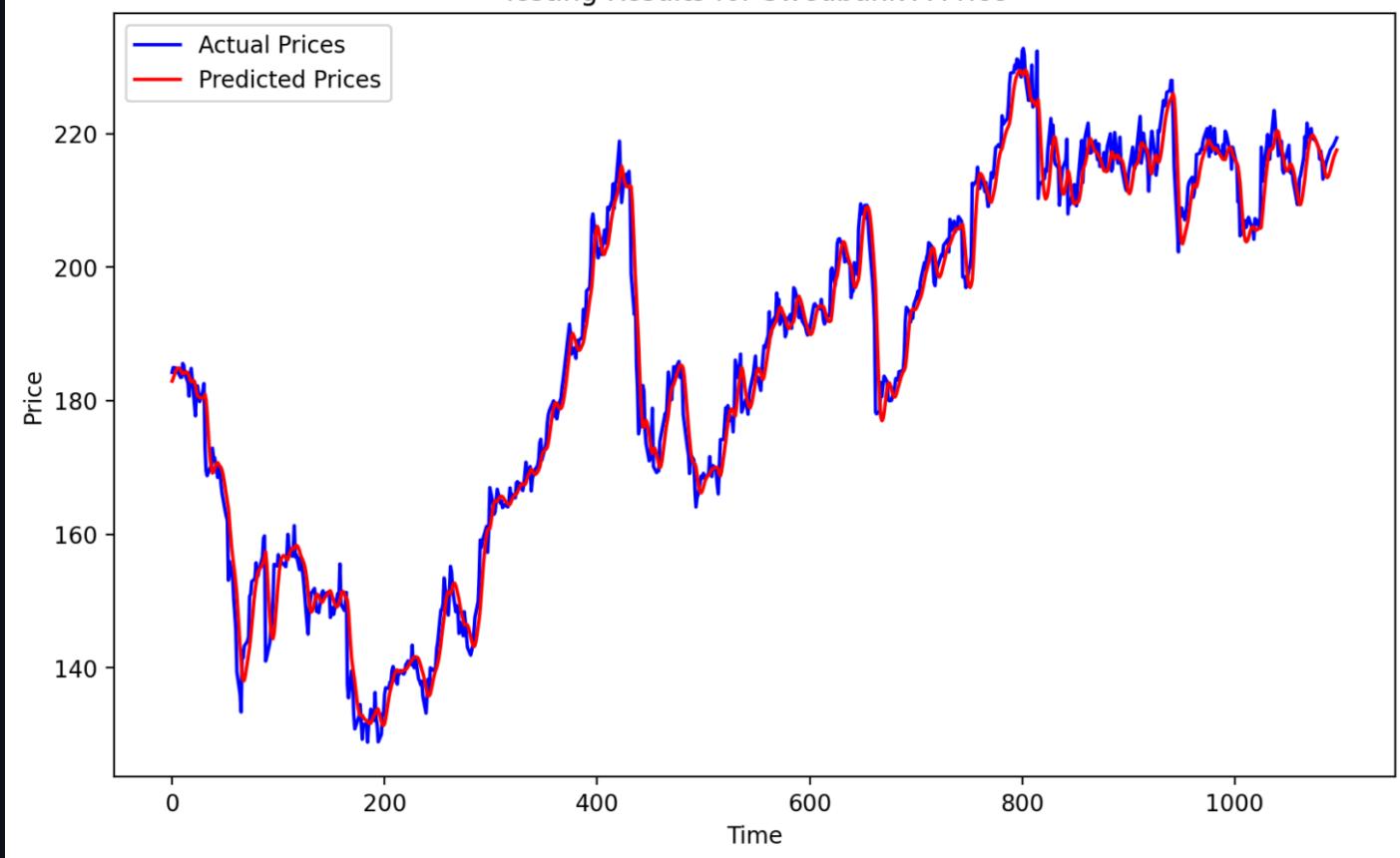
R-Squared (R²): 0.9827

Precision: 0.9878260869565217

Recall: 0.9810017271157168

F1 Score: 0.9844020797227037

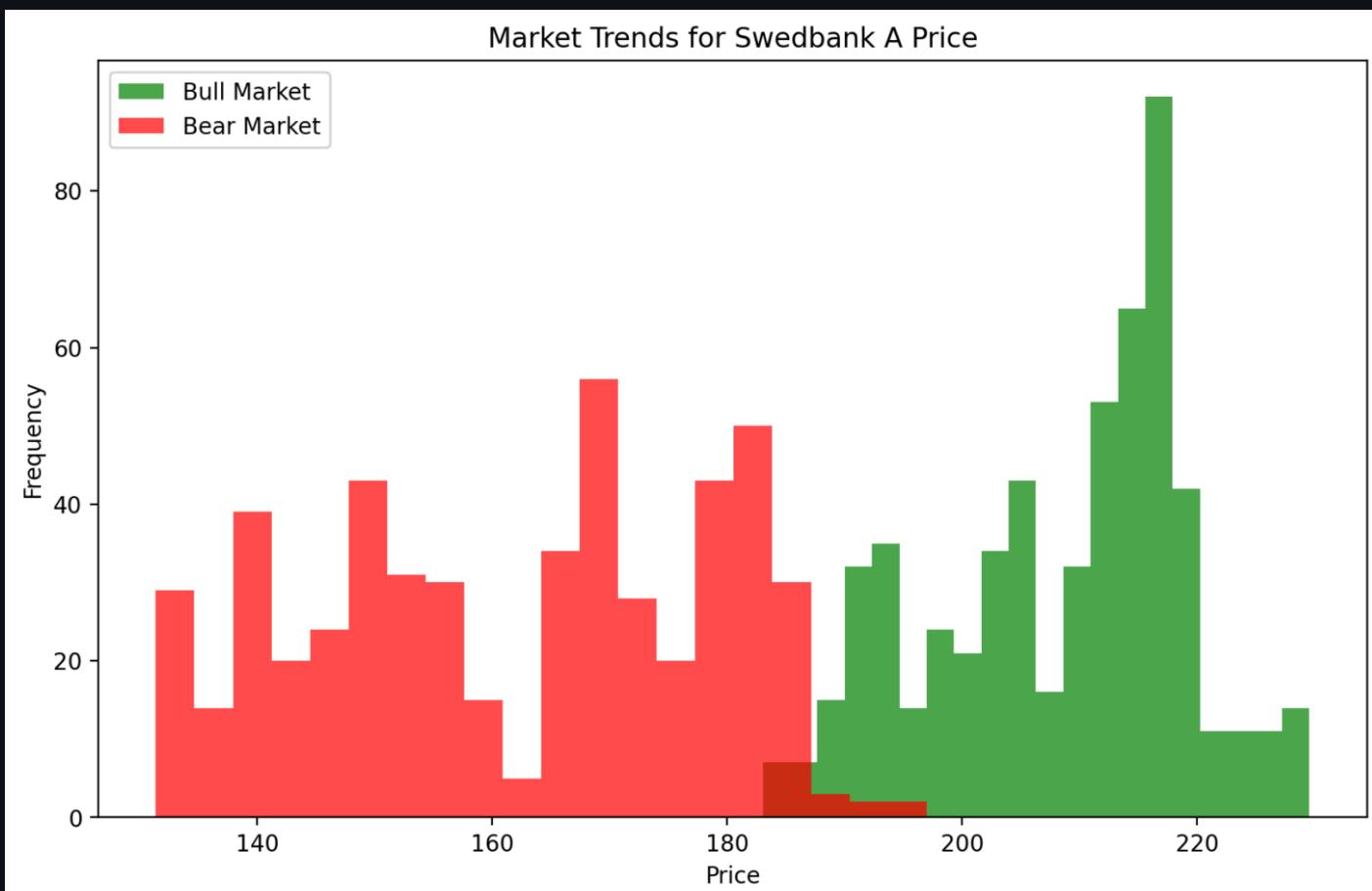
Testing Results for Swedbank A Price



Market Trend Analysis for Swedbank A Price

Bull Market Average Prediction: 208.4405

Bear Market Average Prediction: 161.6742



Processing Stock: UPM-Kymmene Price

Train and test datasets prepared for UPM-Kymmene Price.

Training the Model for UPM-Kymmene Price

Epoch 1/20, Loss: 0.0825

Epoch 2/20, Loss: 0.0078

Epoch 3/20, Loss: 0.0014

Epoch 4/20, Loss: 0.0011

Epoch 5/20, Loss: 0.0011

Epoch 6/20, Loss: 0.0010

Epoch 7/20, Loss: 0.0009

Epoch 8/20, Loss: 0.0008

Epoch 9/20, Loss: 0.0008

Epoch 10/20, Loss: 0.0008

Epoch 11/20, Loss: 0.0007

Epoch 12/20, Loss: 0.0007

Epoch 13/20, Loss: 0.0008

Epoch 14/20, Loss: 0.0007

Epoch 15/20, Loss: 0.0006

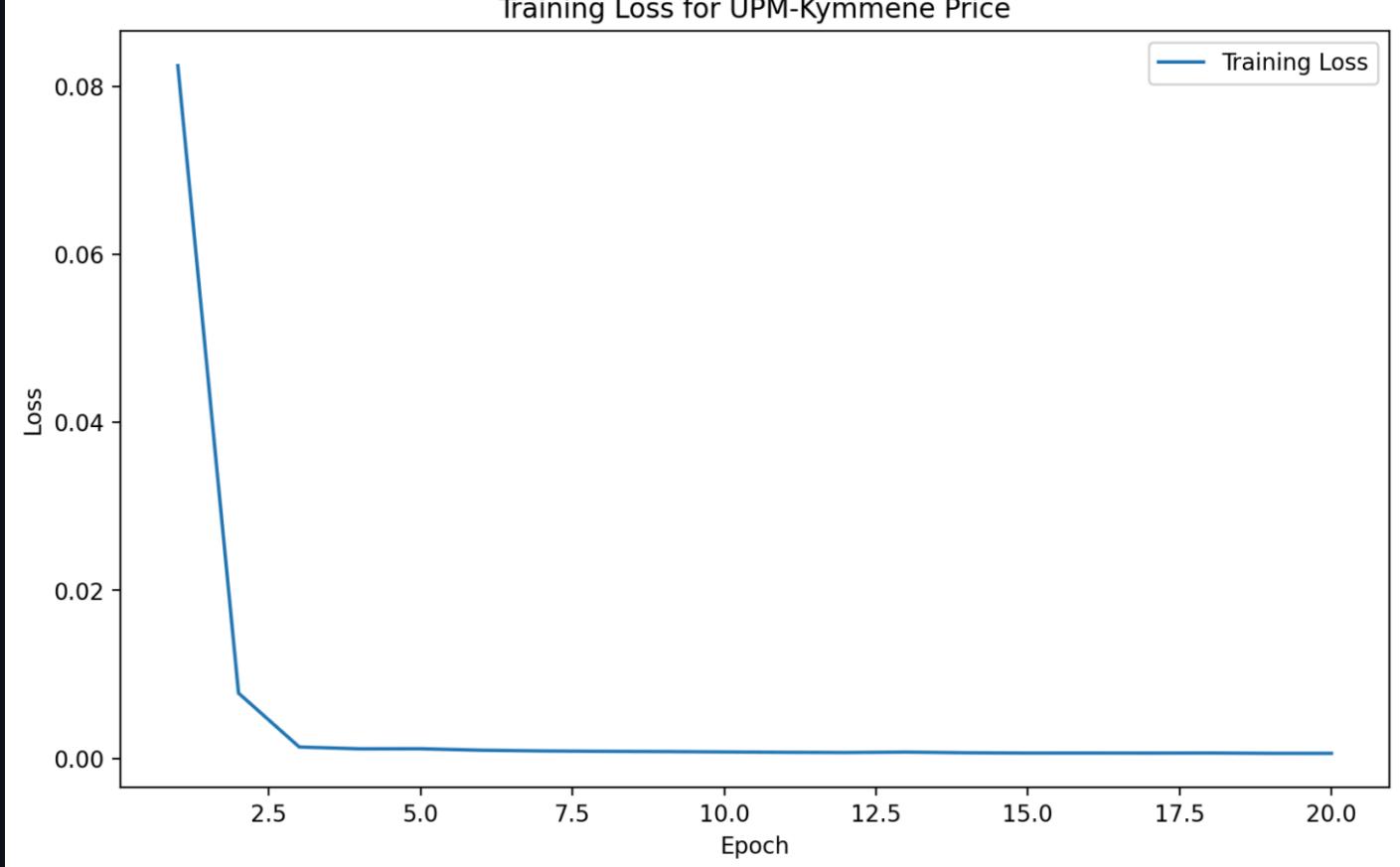
Epoch 16/20, Loss: 0.0006

Epoch 17/20, Loss: 0.0006

Epoch 18/20, Loss: 0.0006

Epoch 19/20, Loss: 0.0006

Epoch 20/20, Loss: 0.0006



Testing the Model for UPM-Kymmene Price

Performance Metrics for UPM-Kymmene Price

Mean Squared Error (MSE): 0.5124

Mean Absolute Error (MAE): 0.5490

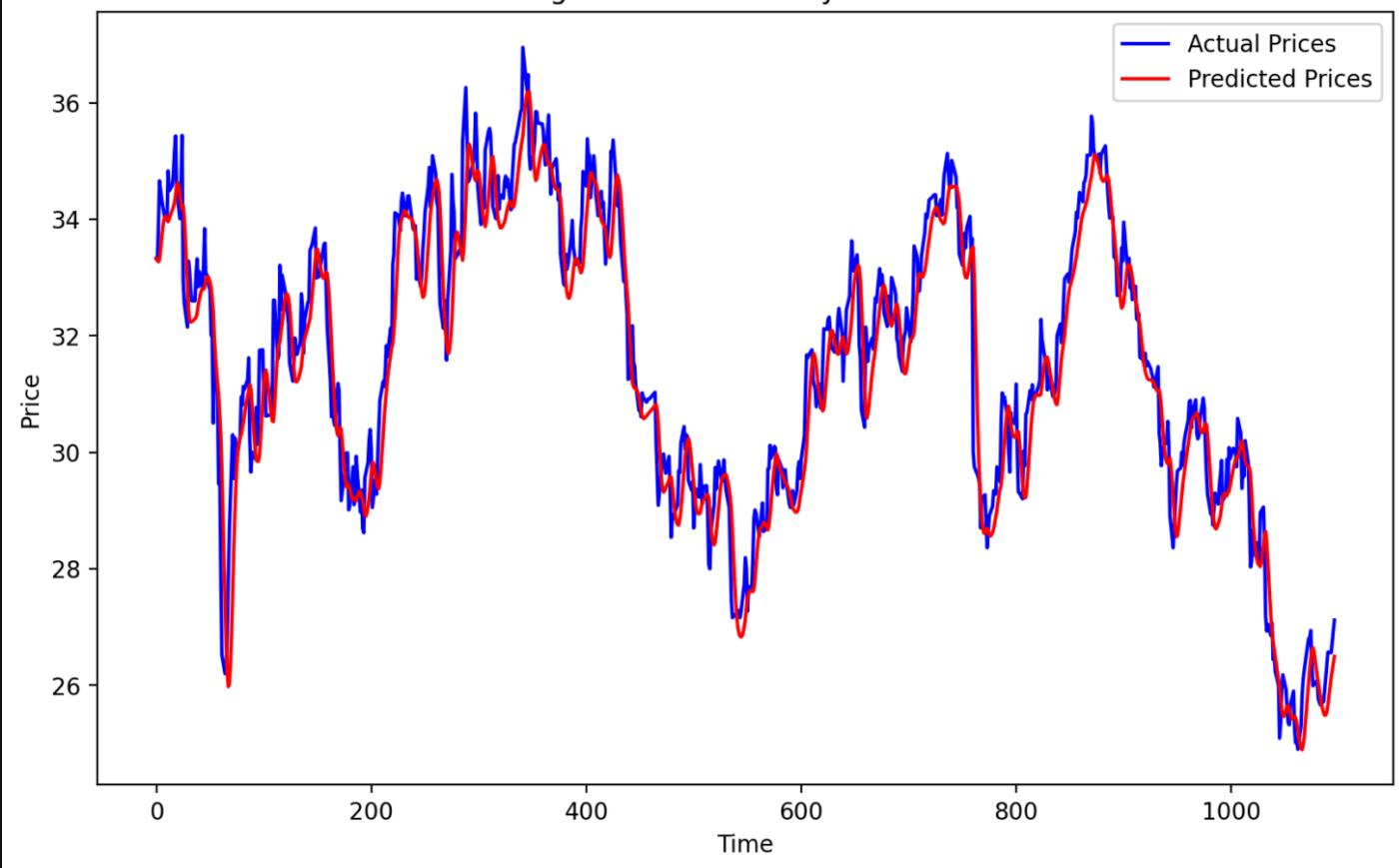
R-Squared (R2): 0.9204

Precision: 0.9551401869158879

Recall: 0.9092526690391459

F1 Score: 0.9316317228805834

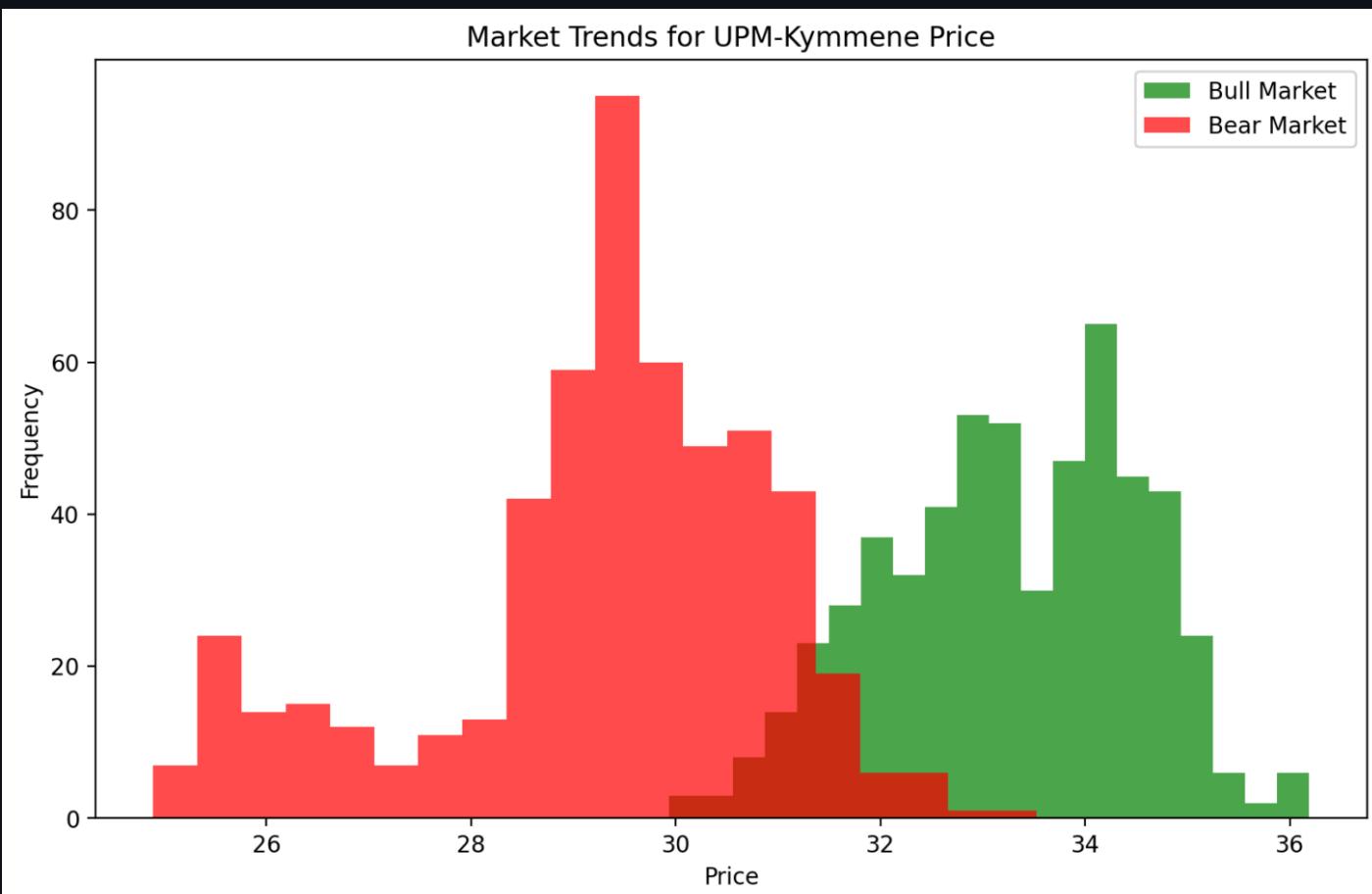
Testing Results for UPM-Kymmene Price



Market Trend Analysis for UPM-Kymmene Price

Bull Market Average Prediction: 33.2751

Bear Market Average Prediction: 29.2884



Processing Stock: Vestas Wind Price

Train and test datasets prepared for Vestas Wind Price.

Training the Model for Vestas Wind Price

Epoch 1/20, Loss: 0.0494

Epoch 2/20, Loss: 0.0055

Epoch 3/20, Loss: 0.0012

Epoch 4/20, Loss: 0.0009

Epoch 5/20, Loss: 0.0008

Epoch 6/20, Loss: 0.0008

Epoch 7/20, Loss: 0.0007

Epoch 8/20, Loss: 0.0007

Epoch 9/20, Loss: 0.0006

Epoch 10/20, Loss: 0.0006

Epoch 11/20, Loss: 0.0006

Epoch 12/20, Loss: 0.0005

Epoch 13/20, Loss: 0.0005

Epoch 14/20, Loss: 0.0005

Epoch 15/20, Loss: 0.0006

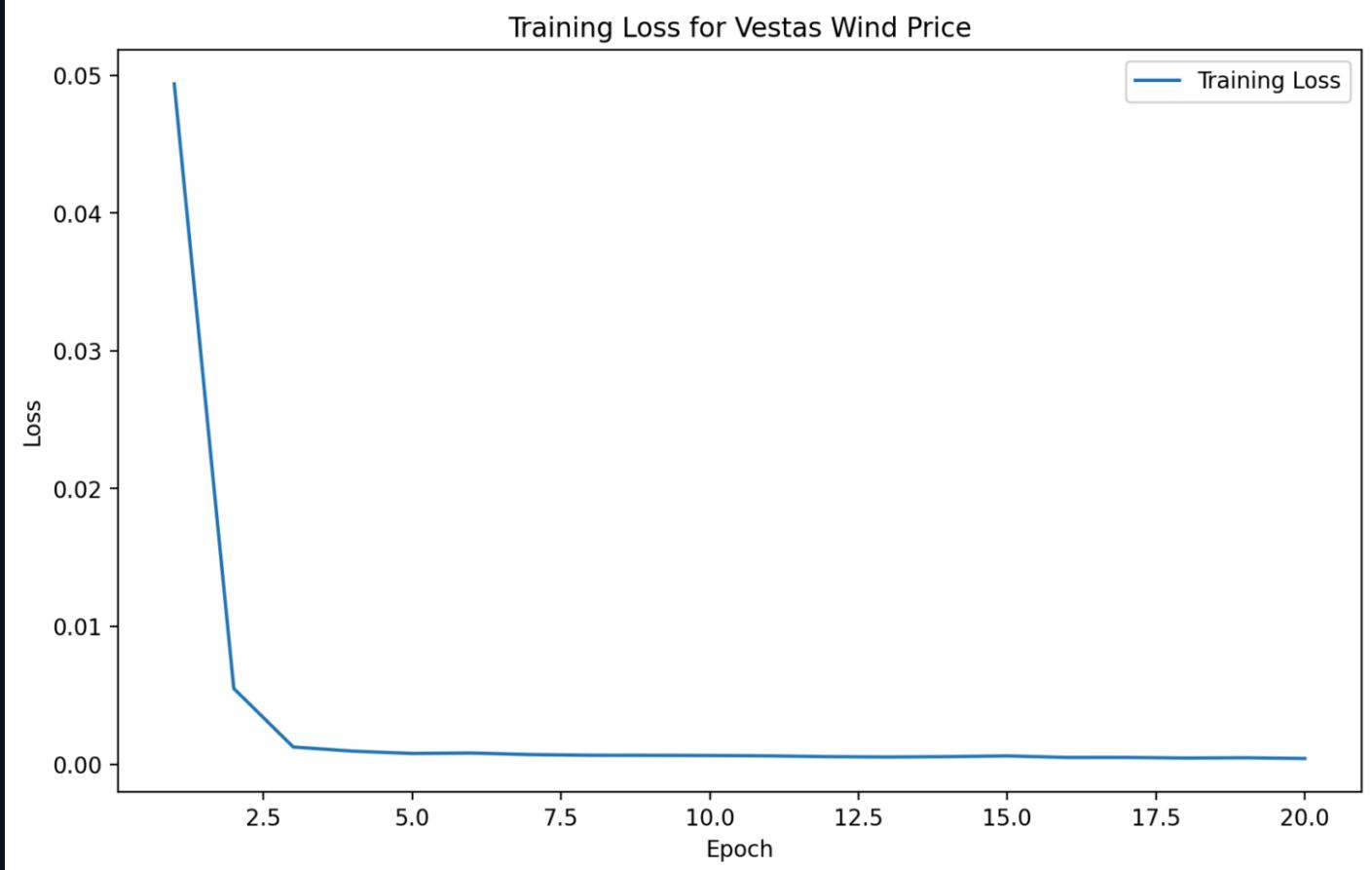
Epoch 16/20, Loss: 0.0005

Epoch 17/20, Loss: 0.0005

Epoch 18/20, Loss: 0.0004

Epoch 19/20, Loss: 0.0005

Epoch 20/20, Loss: 0.0004



Testing the Model for Vestas Wind Price

Performance Metrics for Vestas Wind Price

Mean Squared Error (MSE): 44.2773

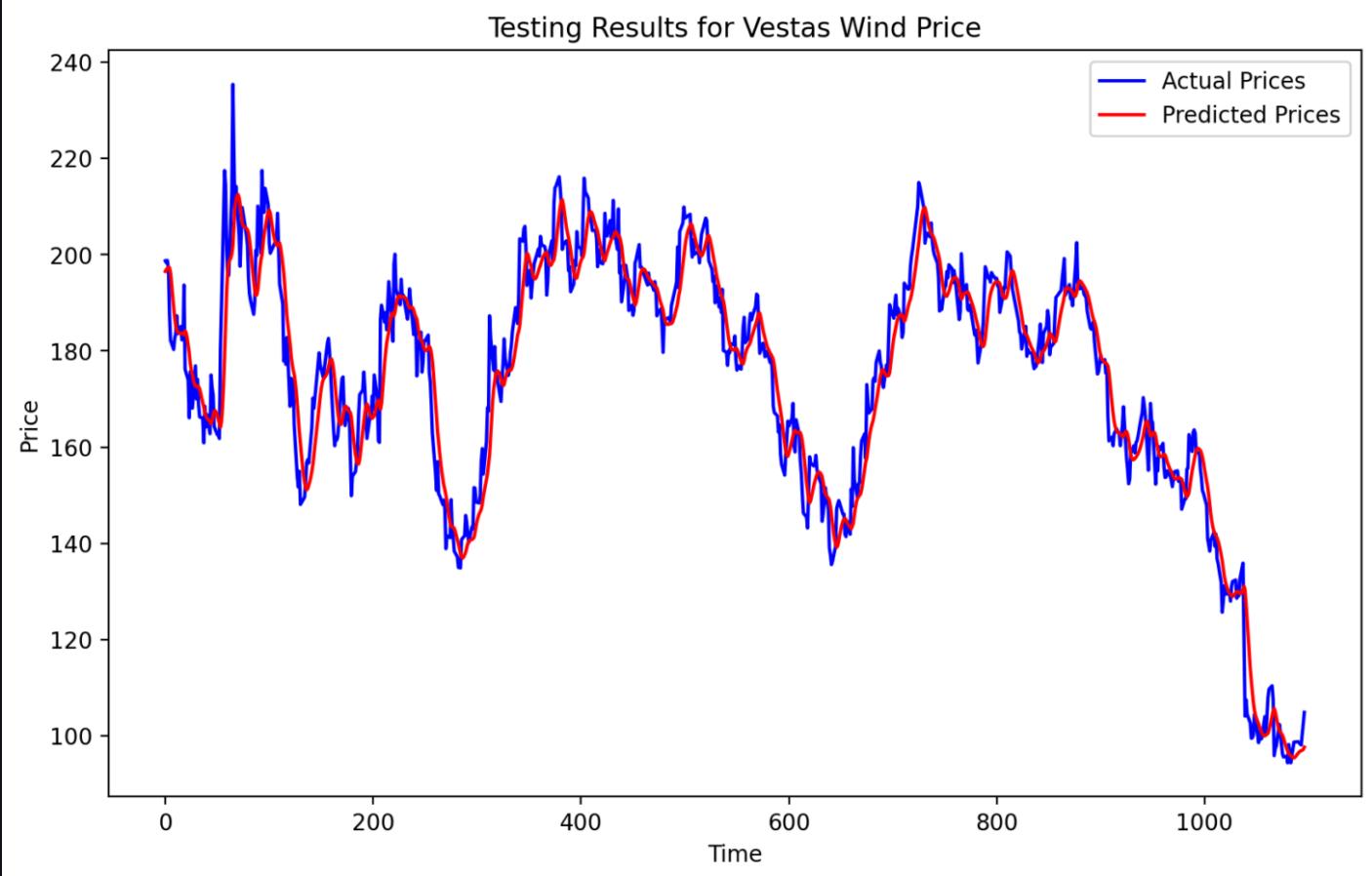
Mean Absolute Error (MAE): 5.0079

R-Squared (R²): 0.9381

Precision: 0.9578125

Recall: 0.9489164086687306

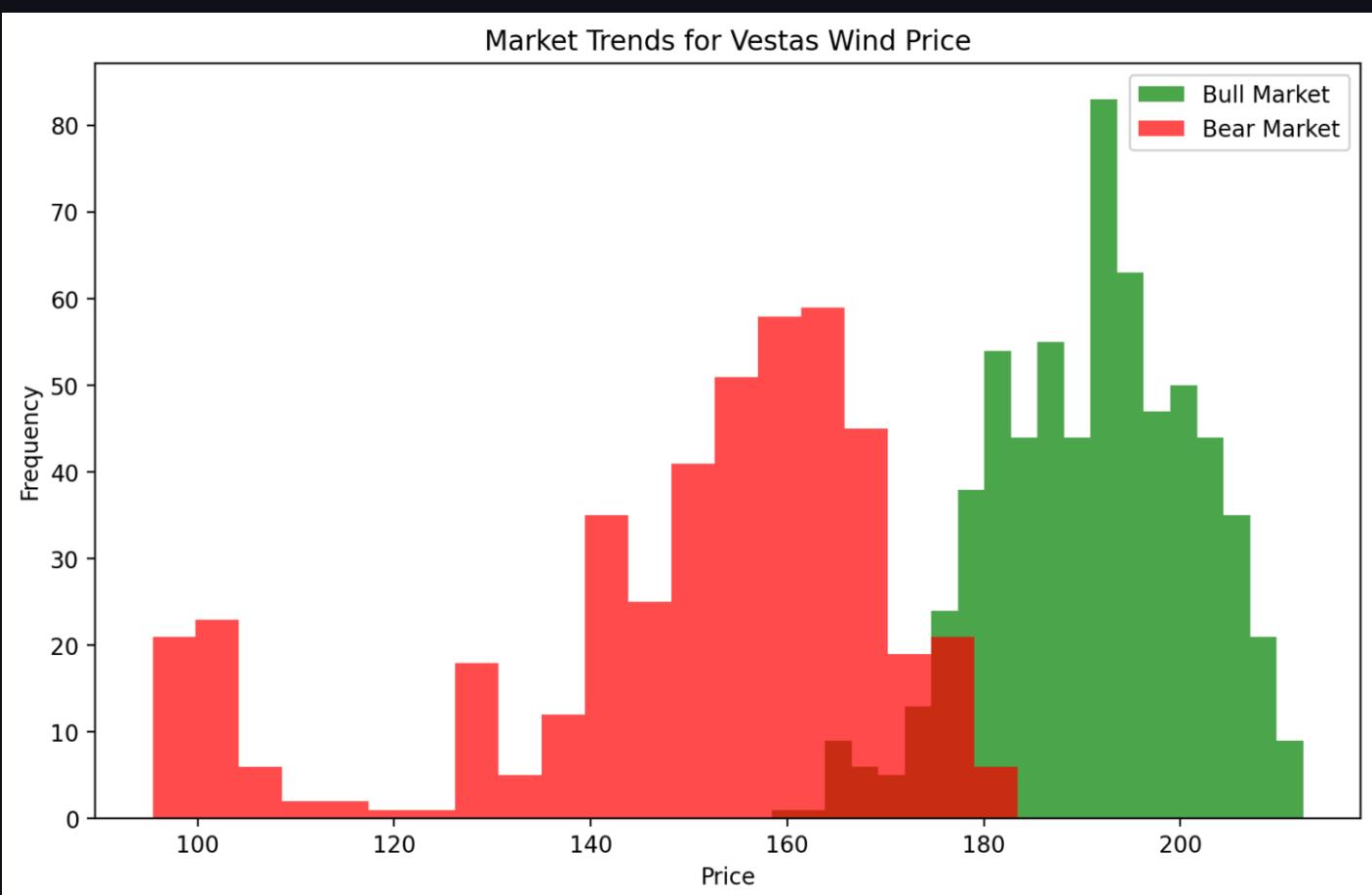
F1 Score: 0.9533437013996889



Market Trend Analysis for Vestas Wind Price

Bull Market Average Prediction: 190.9730

Bear Market Average Prediction: 149.6535



Processing Stock: Volvo B Price

Train and test datasets prepared for Volvo B Price.

Training the Model for Volvo B Price

Epoch 1/20, Loss: 0.0319

Epoch 2/20, Loss: 0.0065

Epoch 3/20, Loss: 0.0011

Epoch 4/20, Loss: 0.0004

Epoch 5/20, Loss: 0.0003

Epoch 6/20, Loss: 0.0003

Epoch 7/20, Loss: 0.0003

Epoch 8/20, Loss: 0.0003

Epoch 9/20, Loss: 0.0003

Epoch 10/20, Loss: 0.0003

Epoch 11/20, Loss: 0.0003

Epoch 12/20, Loss: 0.0003

Epoch 13/20, Loss: 0.0003

Epoch 14/20, Loss: 0.0003

Epoch 15/20, Loss: 0.0003

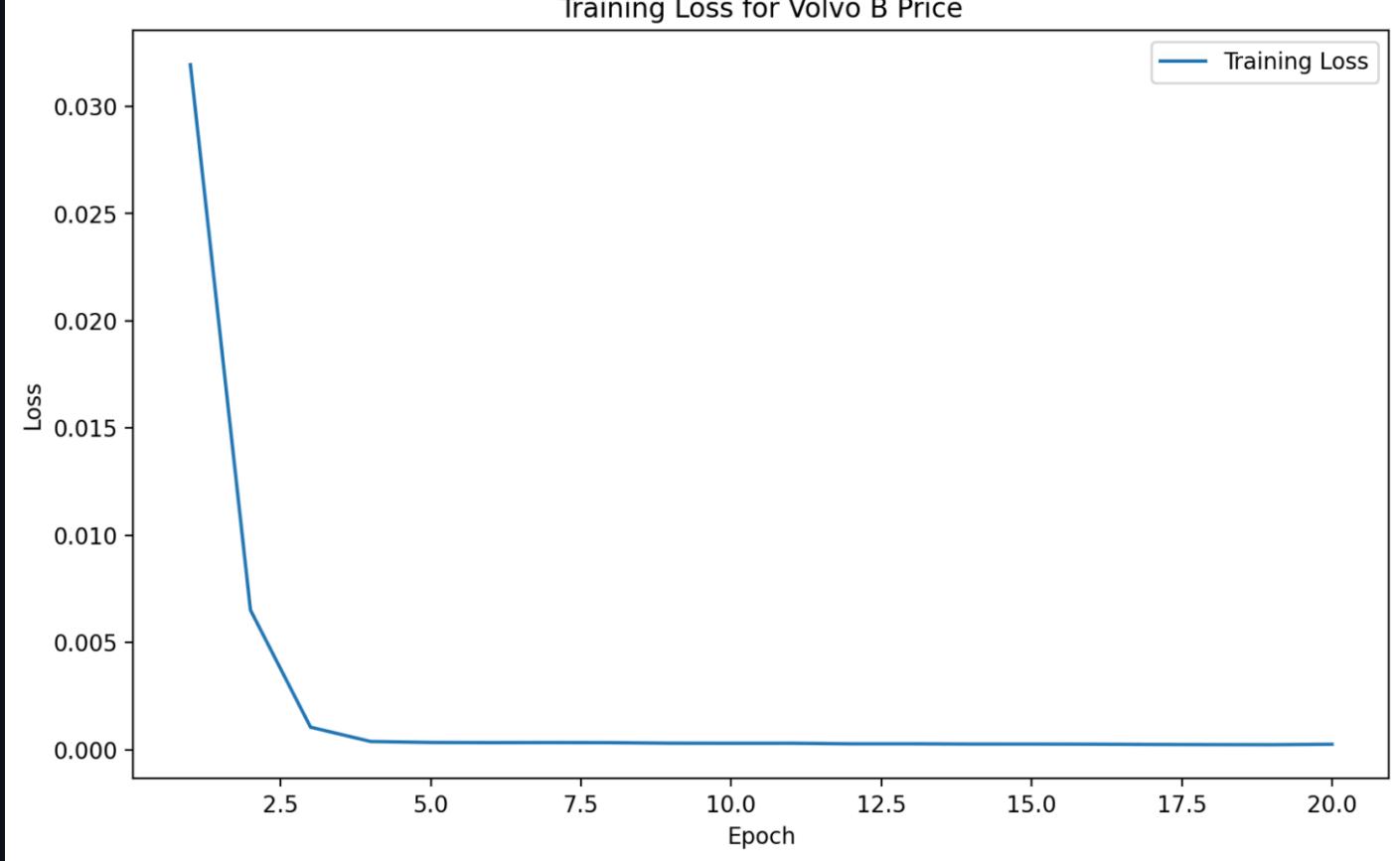
Epoch 16/20, Loss: 0.0003

Epoch 17/20, Loss: 0.0002

Epoch 18/20, Loss: 0.0002

Epoch 19/20, Loss: 0.0002

Epoch 20/20, Loss: 0.0003



Testing the Model for Volvo B Price

Performance Metrics for Volvo B Price

Mean Squared Error (MSE): 28.9351

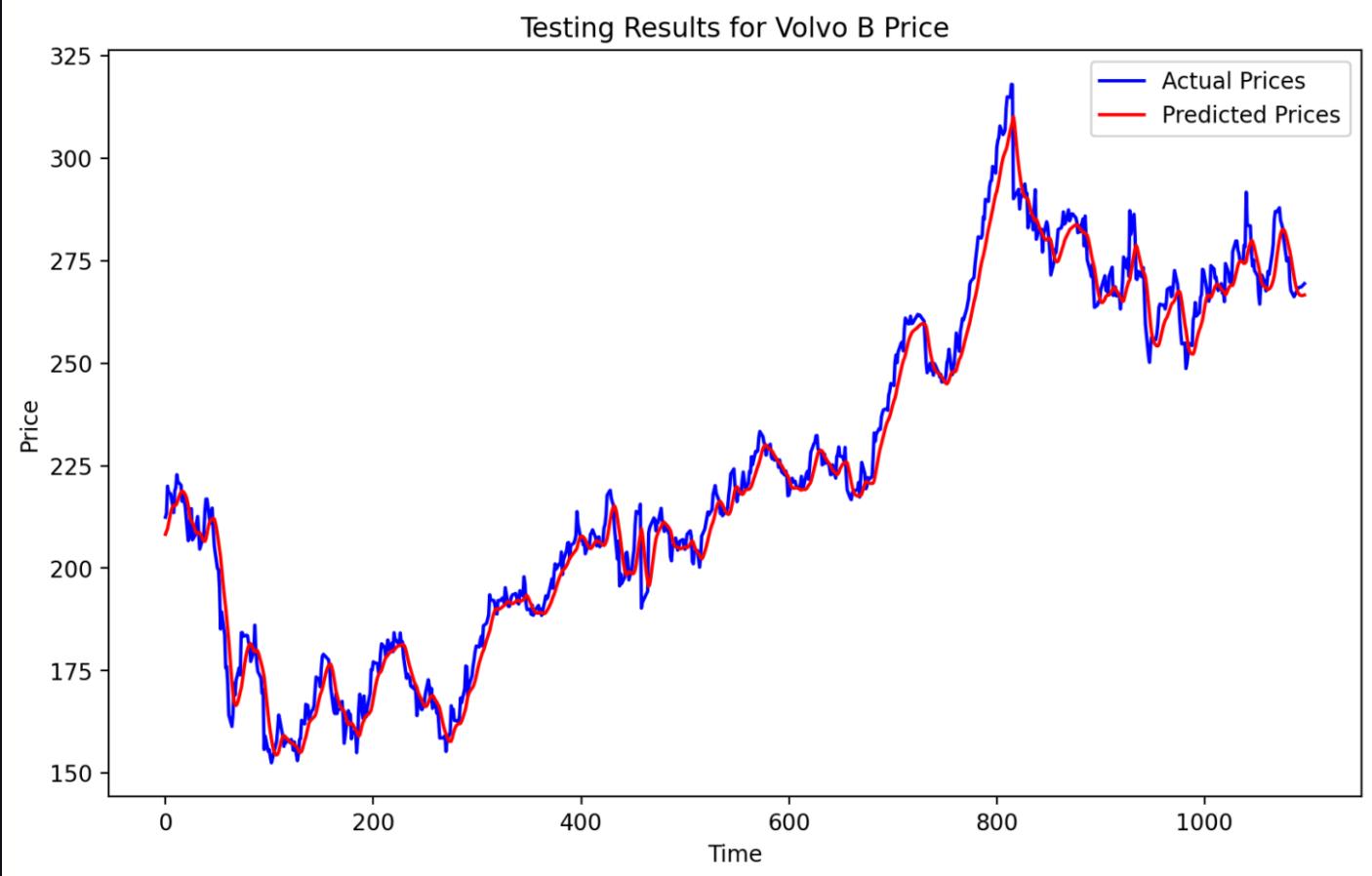
Mean Absolute Error (MAE): 4.1982

R-Squared (R²): 0.9834

Precision: 0.9829059829059829

Recall: 0.9583333333333334

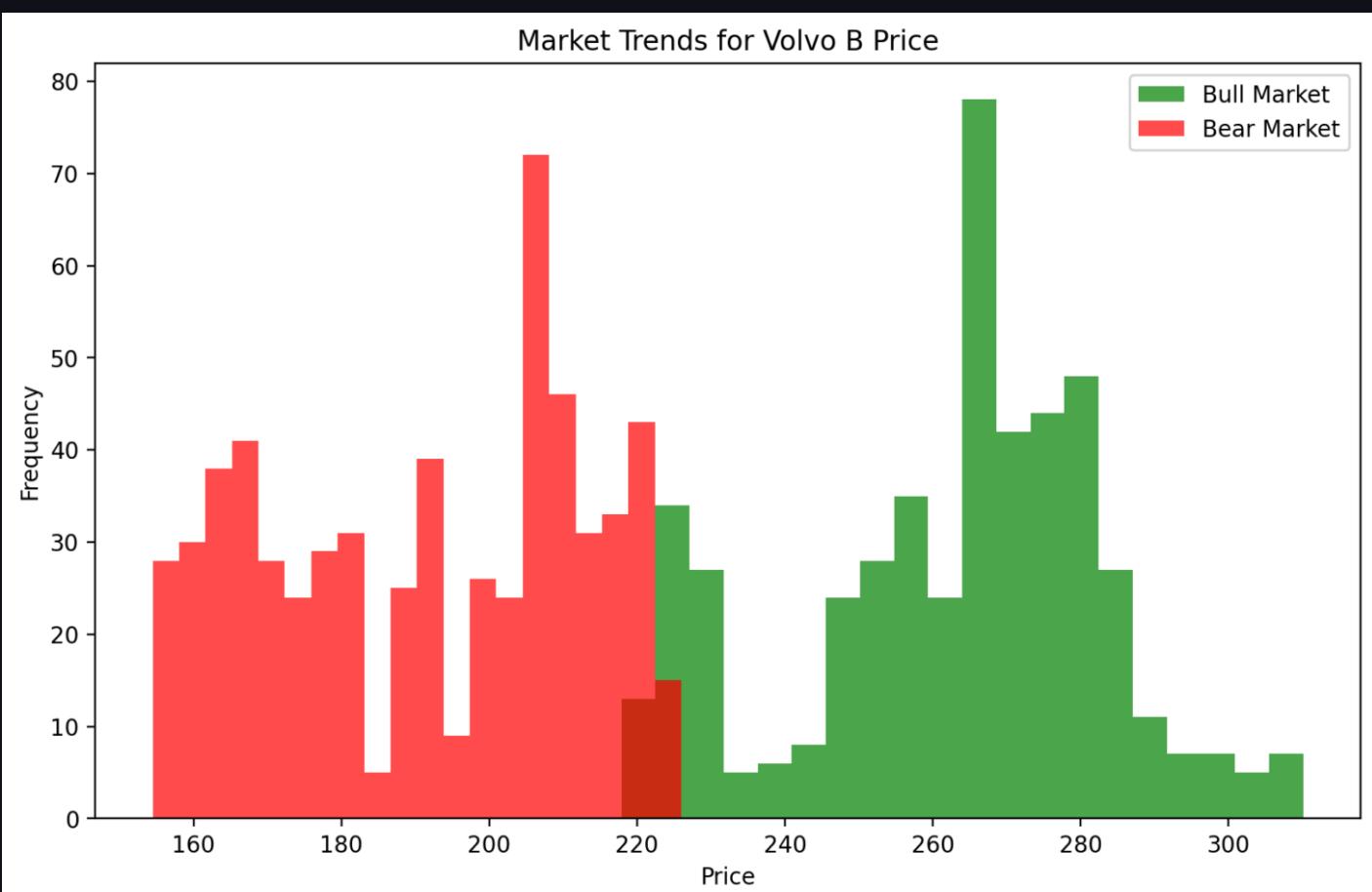
F1 Score: 0.9704641350210971



Market Trend Analysis for Volvo B Price

Bull Market Average Prediction: 262.3824

Bear Market Average Prediction: 191.1623



Processing Stock: Zealand Pharma Price

Train and test datasets prepared for Zealand Pharma Price.

Training the Model for Zealand Pharma Price

Epoch 1/20, Loss: 0.0039

Epoch 2/20, Loss: 0.0024

Epoch 3/20, Loss: 0.0006

Epoch 4/20, Loss: 0.0001

Epoch 5/20, Loss: 0.0001

Epoch 6/20, Loss: 0.0001

Epoch 7/20, Loss: 0.0001

Epoch 8/20, Loss: 0.0001

Epoch 9/20, Loss: 0.0001

Epoch 10/20, Loss: 0.0001

Epoch 11/20, Loss: 0.0001

Epoch 12/20, Loss: 0.0001

Epoch 13/20, Loss: 0.0001

Epoch 14/20, Loss: 0.0001

Epoch 15/20, Loss: 0.0001

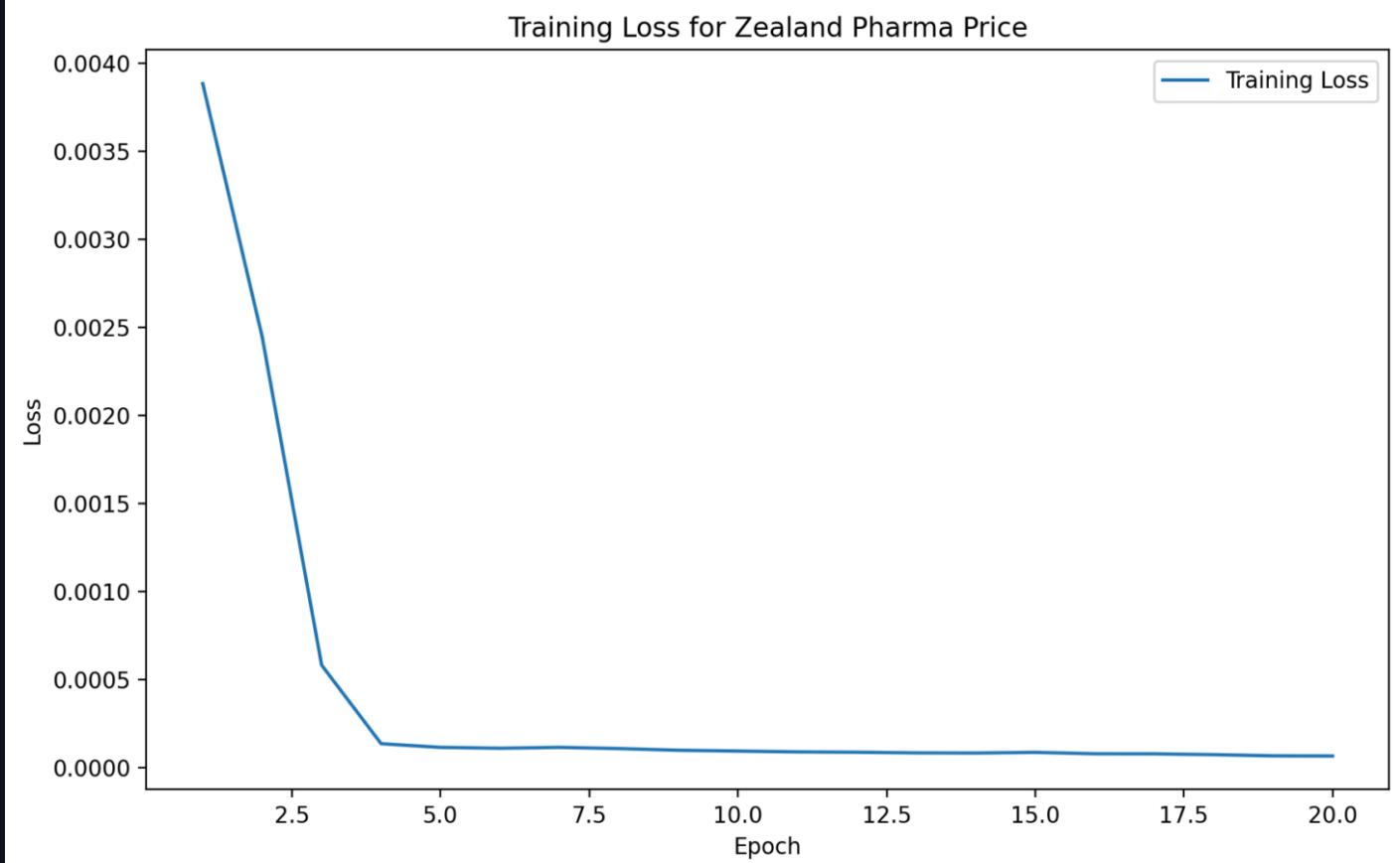
Epoch 16/20, Loss: 0.0001

Epoch 17/20, Loss: 0.0001

Epoch 18/20, Loss: 0.0001

Epoch 19/20, Loss: 0.0001

Epoch 20/20, Loss: 0.0001



Testing the Model for Zealand Pharma Price

Performance Metrics for Zealand Pharma Price

Mean Squared Error (MSE): 4706.9326

Mean Absolute Error (MAE): 40.2437

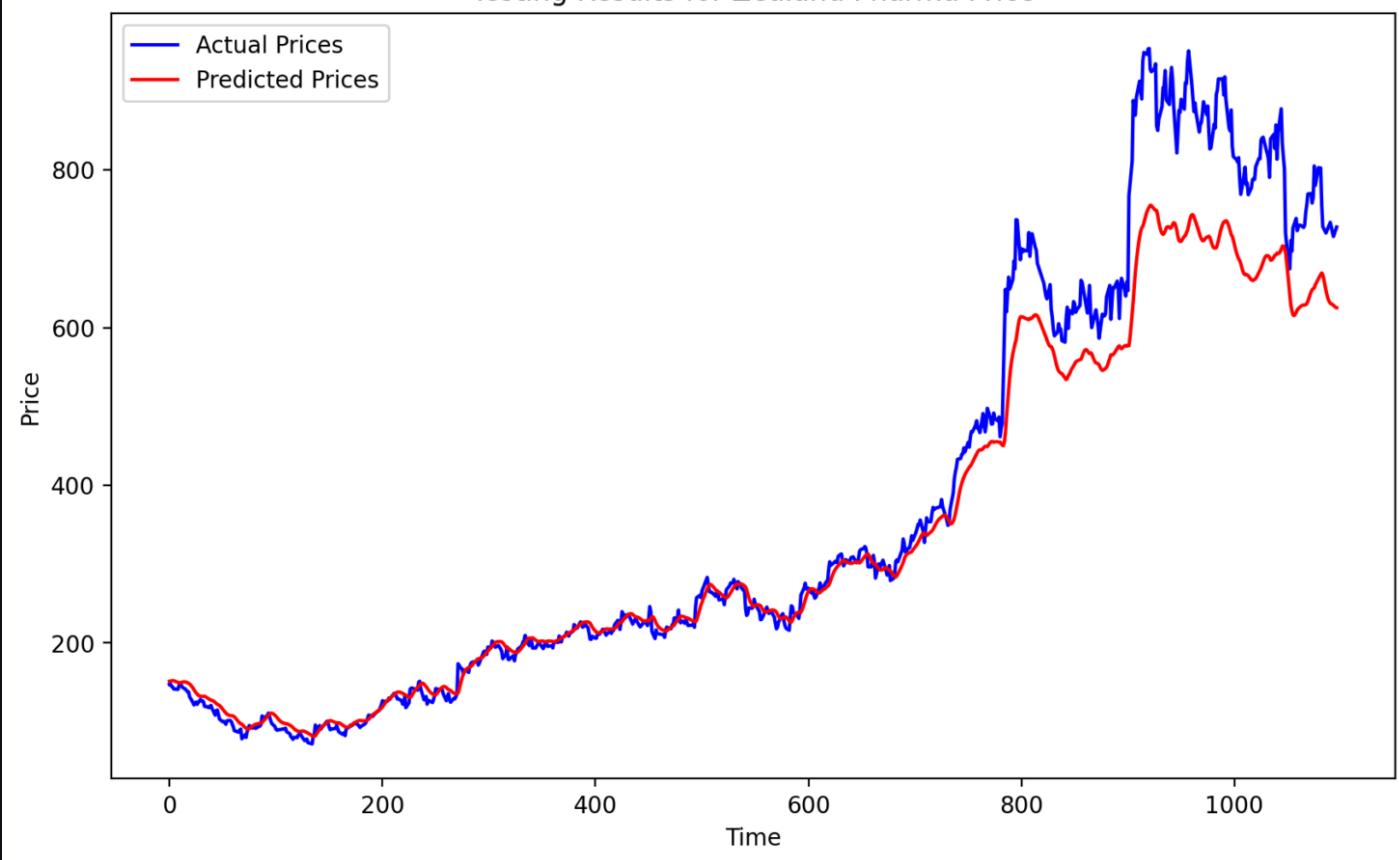
R-Squared (R2): 0.9343

Precision: 1.0

Recall: 0.9623655913978495

F1 Score: 0.9808219178082191

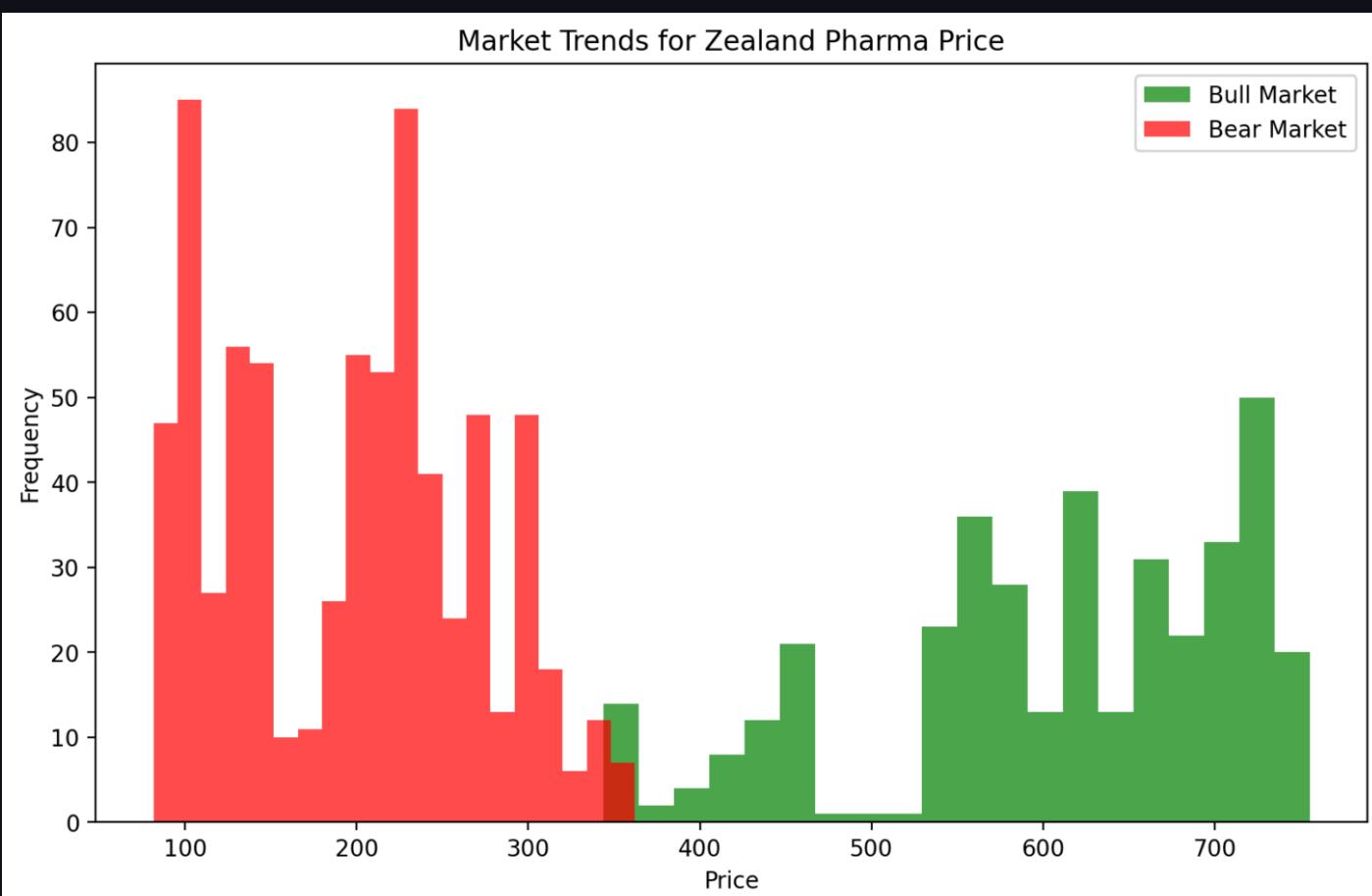
Testing Results for Zealand Pharma Price



Market Trend Analysis for Zealand Pharma Price

Bull Market Average Prediction: 608.0355

Bear Market Average Prediction: 196.7931

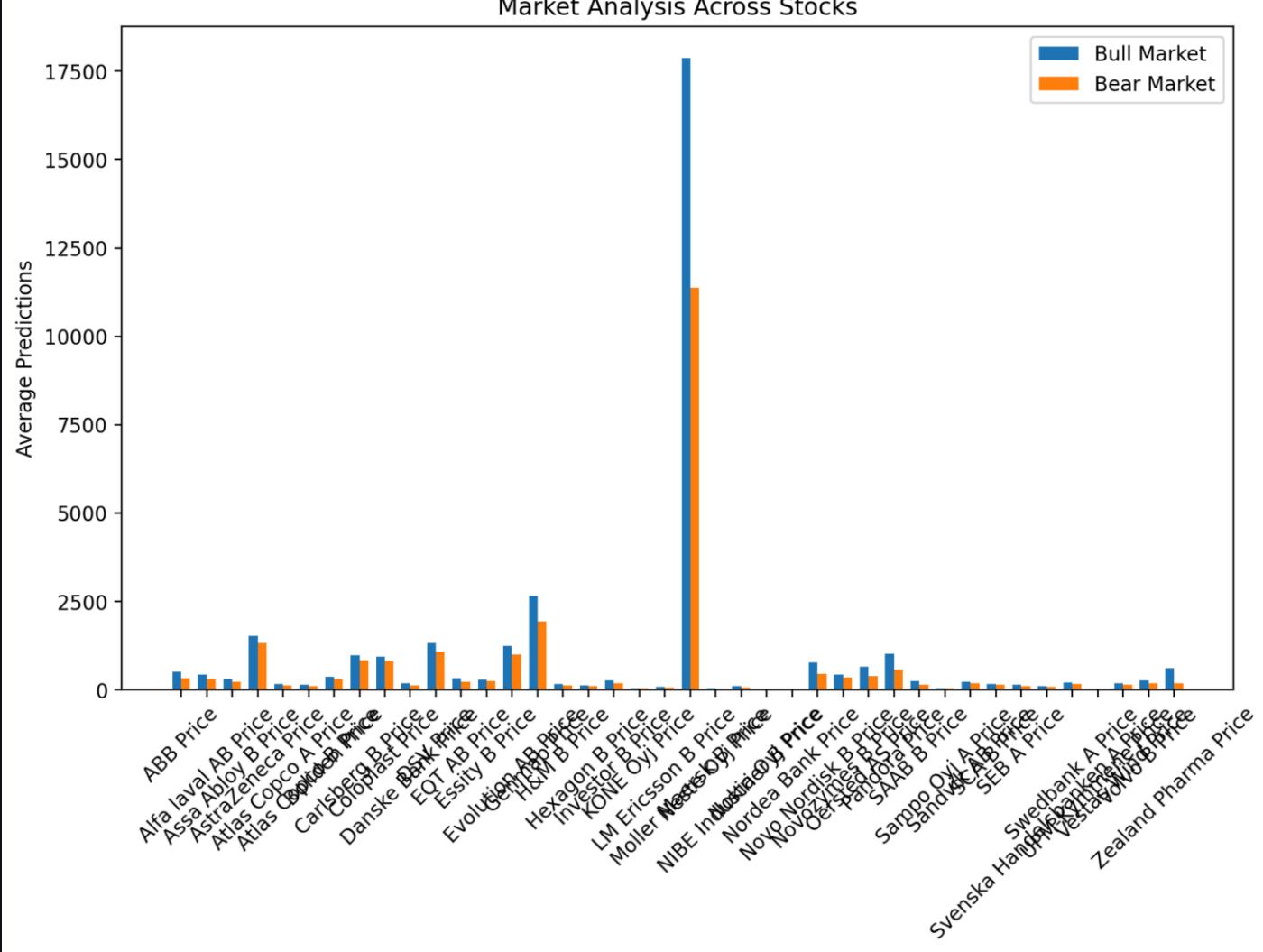


Index-Level Analysis

Summary of Predictions Across All Stocks

	Stock	Bull Market Avg	Bear Market Avg	MSE	MAE	R2	Precision	Recall
0	ABB Price	518.652	336.1029	114.7459	8.0364	0.991	0.9473	0.95
1	Alfa laval AB Price	429.0708	311.0692	86.3856	7.0972	0.9827	0.9219	0.95
2	Assa Abloy B Price	303.6703	239.947	30.0538	4.3357	0.9781	0.9812	0.95
3	AstraZeneca Price	1,532.6279	1,318.2638	1,026.8457	24.6939	0.9585	0.9452	0.95
4	Atlas Copco A Price	169.3338	122.7491	32.742	4.4646	0.9637	0.9814	0.95
5	Atlas Copco B Price	148.4442	110.4957	24.4209	3.8208	0.9622	0.9773	0.95
6	Boliden Price	372.9089	305.5063	128.7029	8.7127	0.9389	0.9655	0.85
7	Carlsberg B Price	982.5656	833.3703	430.1451	16.4846	0.958	0.984	0.85
8	Coloplast Price	935.6483	821.3841	582.1982	18.6412	0.8942	0.8293	0.95
9	Danske Bank Price	187.7133	120.9229	17.6766	3.1646	0.9878	0.9838	0.95

Bull vs Bear Market Averages by Stock

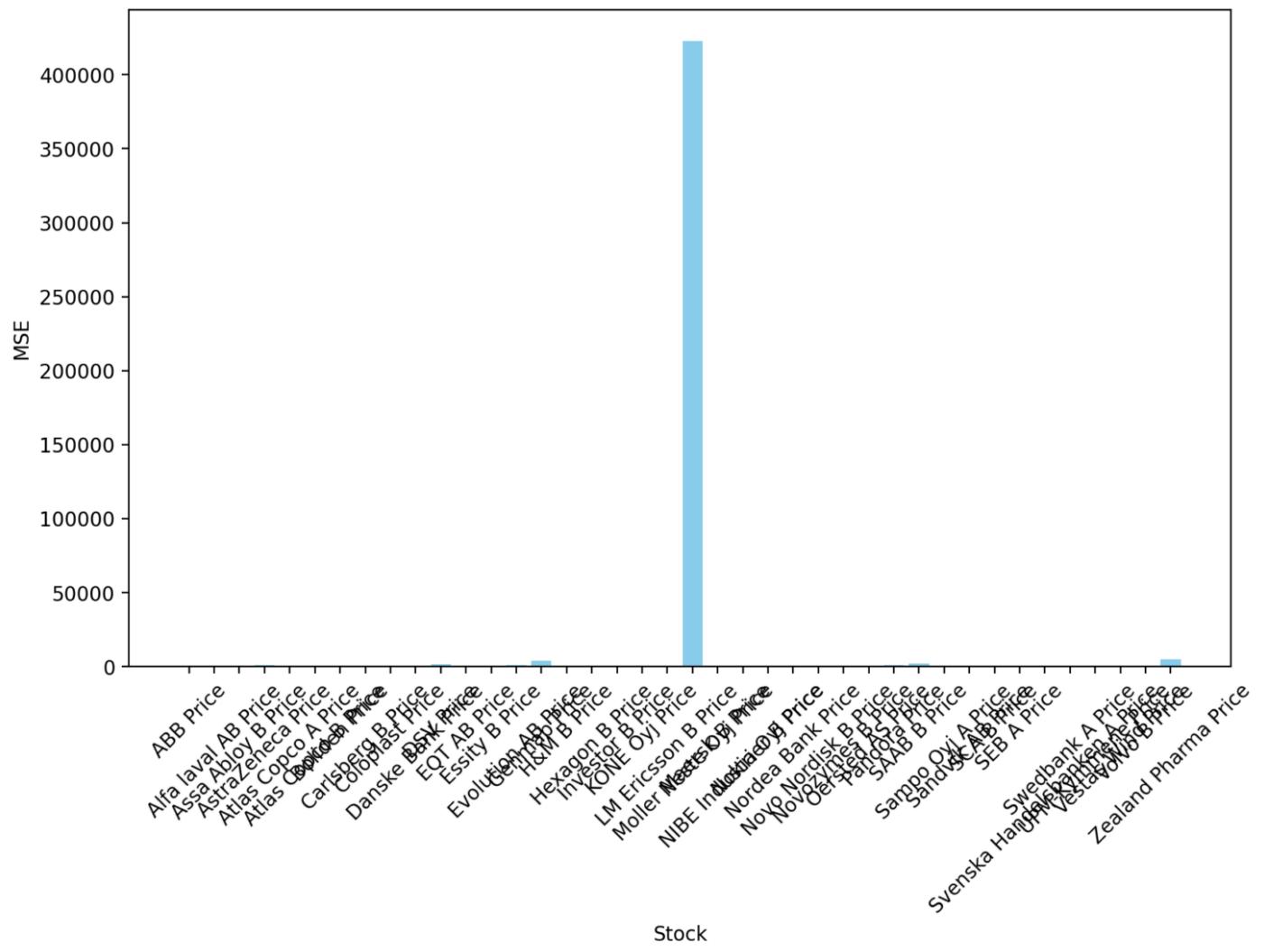


Performance Metrics Across All Stocks

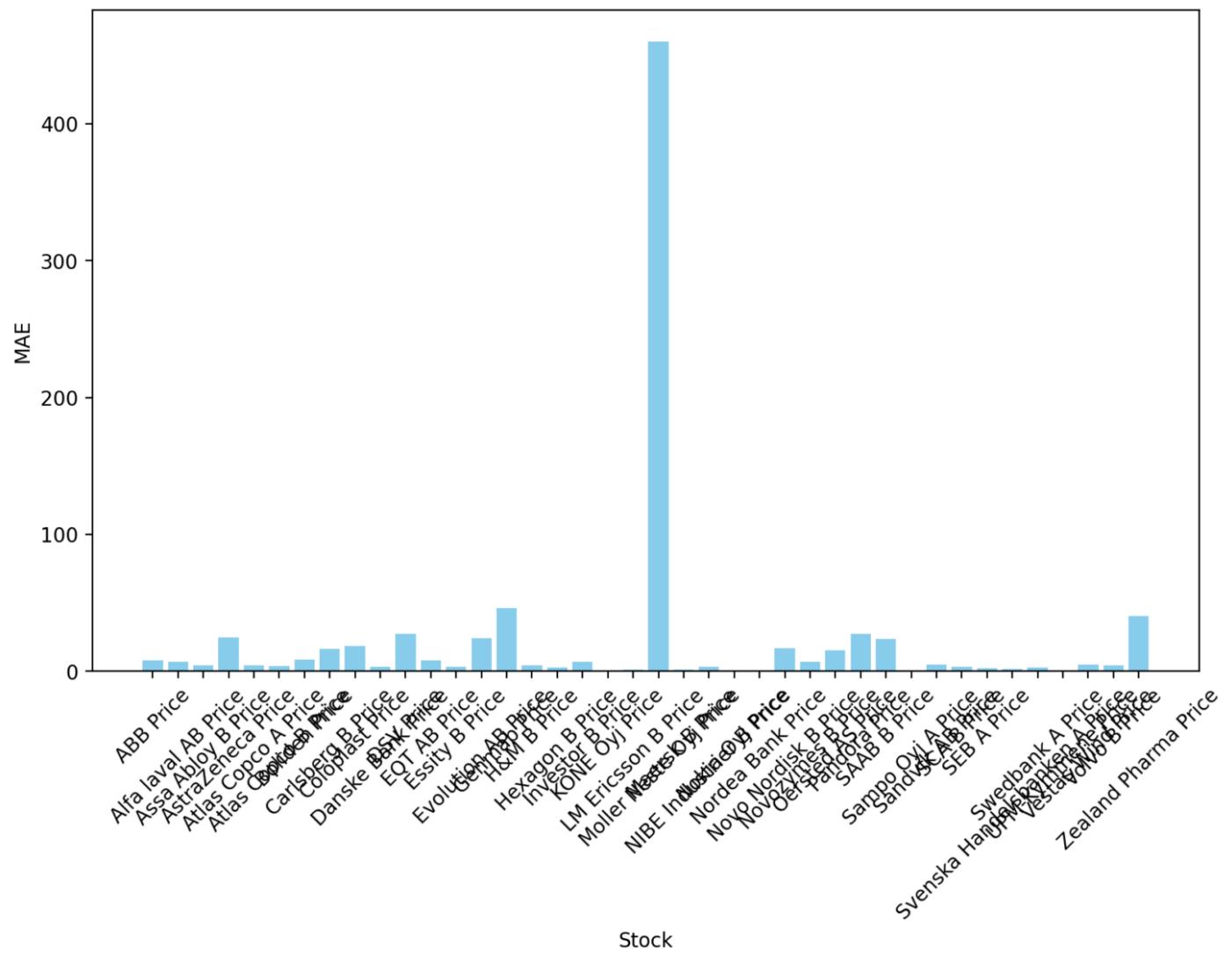
	Stock	MSE	MAE	R2	Precision	Recall	F1 Score
0	ABB Price	114.7459	8.0364	0.991	0.9473	0.9782	0.9625
1	Alfa laval AB Price	86.3856	7.0972	0.9827	0.9219	0.9931	0.9562
2	Assa Abloy B Price	30.0538	4.3357	0.9781	0.9812	0.9698	0.9754
3	AstraZeneca Price	1,026.8457	24.6939	0.9585	0.9452	0.9084	0.9264
4	Atlas Copco A Price	32.742	4.4646	0.9637	0.9814	0.9015	0.9398
5	Atlas Copco B Price	24.4209	3.8208	0.9622	0.9773	0.9256	0.9508
6	Boliden Price	128.7029	8.7127	0.9389	0.9655	0.8907	0.9266
7	Carlsberg B Price	430.1451	16.4846	0.958	0.984	0.8847	0.9317
8	Coloplast Price	582.1982	18.6412	0.8942	0.8293	0.9757	0.8966
9	Danske Bank Price	17.6766	3.1646	0.9878	0.9838	0.9595	0.9715

Performance Metrics Visualized

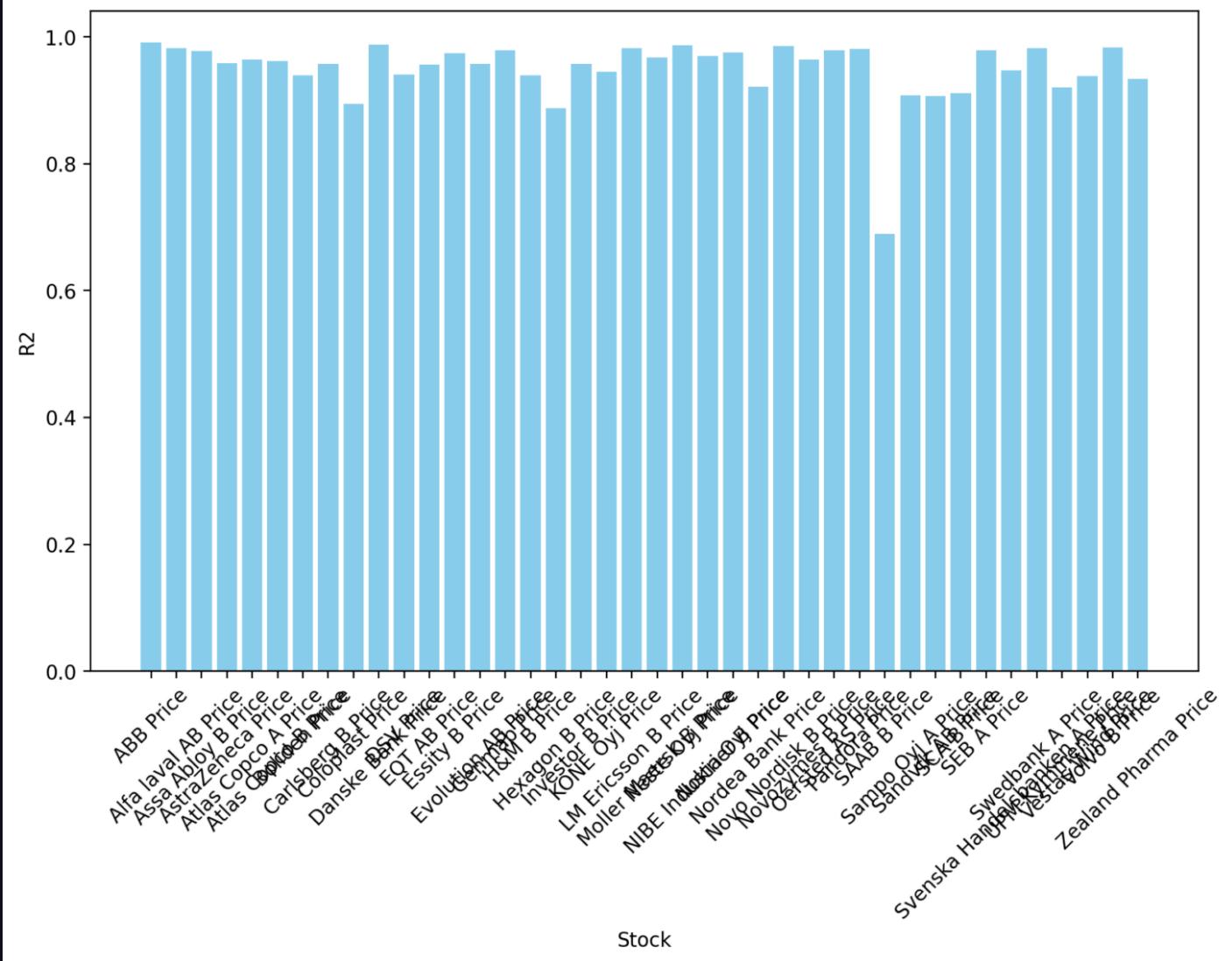
MSE Across Stocks



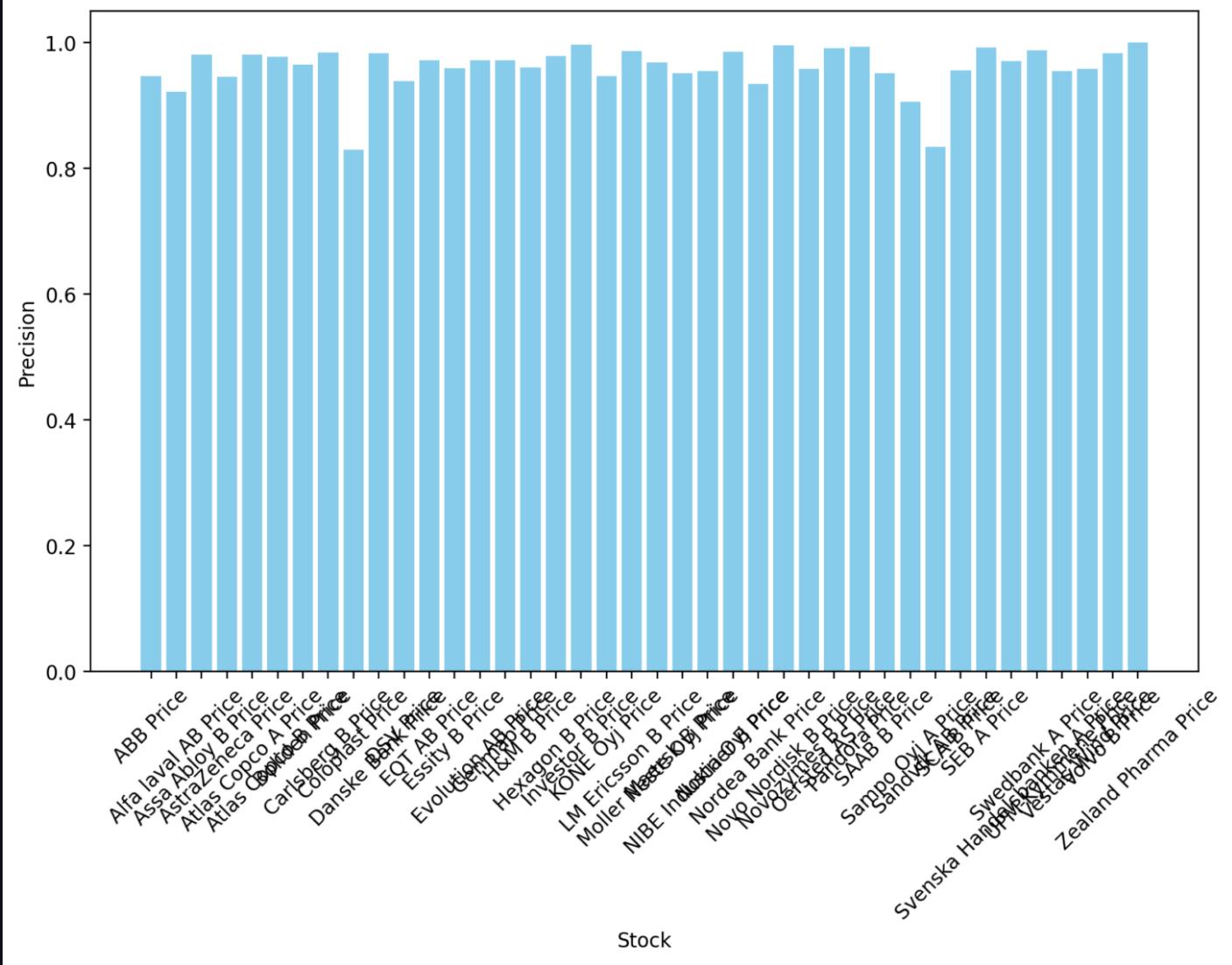
MAE Across Stocks



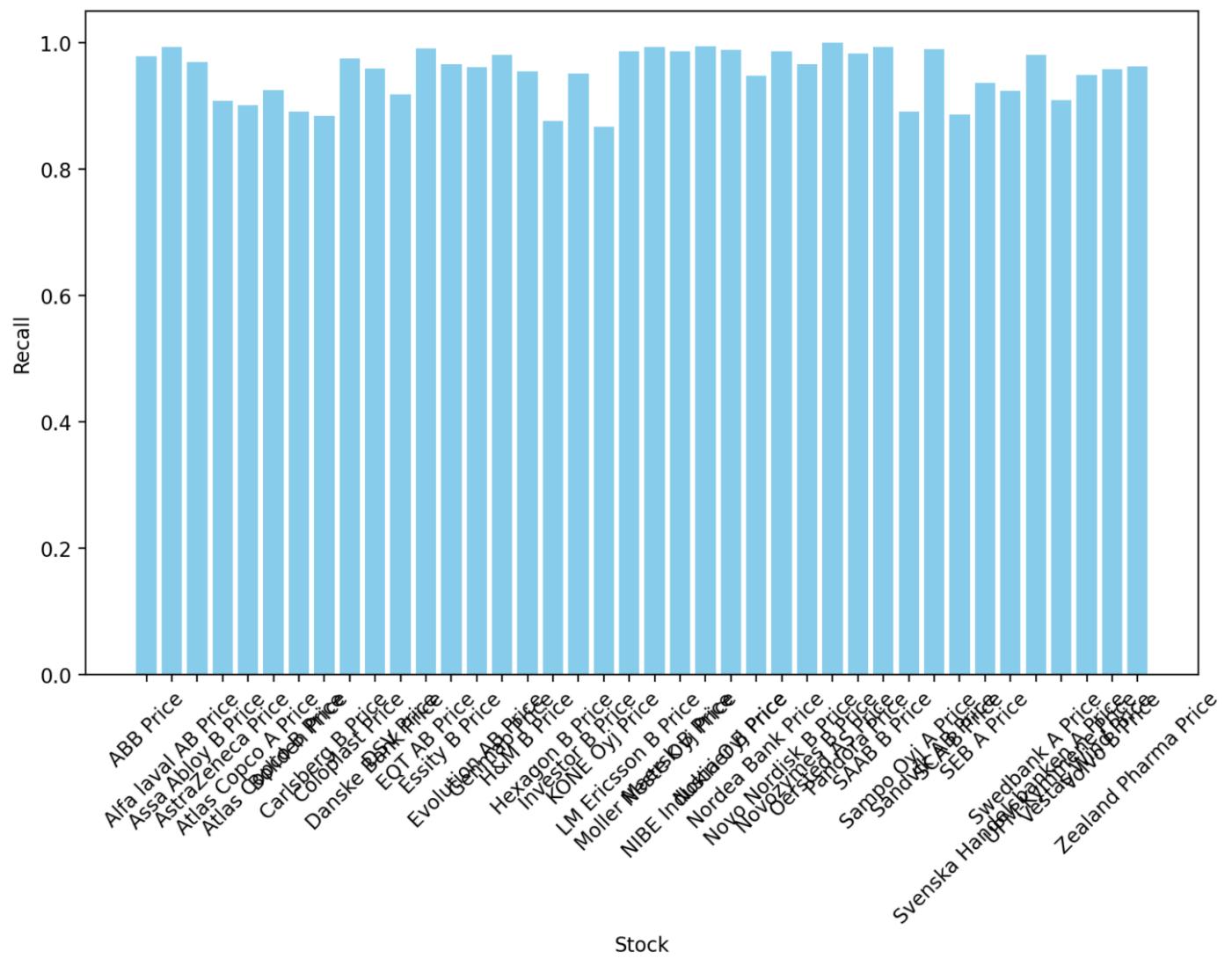
R2 Across Stocks



Precision Across Stocks



Recall Across Stocks



F1 Score Across Stocks

