This is the model:

model = xgb.XGBRegressor(objective='reg:squarederror',  
 colsample\_bytree=0.3,  
 learning\_rate=0.1,  
 max\_depth=5,  
 alpha=10,  
 n\_estimators=200)

## 6Hour

A graph of a graph

Description automatically generated with medium confidence

A green line graph with white text

Description automatically generatedA green line graph with white text

Description automatically generated

A green line graph with white text

Description automatically generatedA green line graph with white text

Description automatically generated

A green line graph with white text

Description automatically generatedA green line graph with white text

Description automatically generated

### Output:

[0] validation\_0-rmse:23.53813 validation\_1-rmse:23.61135

[1] validation\_0-rmse:21.42034 validation\_1-rmse:21.49377

[2] validation\_0-rmse:19.50196 validation\_1-rmse:19.57553

[3] validation\_0-rmse:17.77681 validation\_1-rmse:17.85336

[4] validation\_0-rmse:16.24303 validation\_1-rmse:16.32378

[5] validation\_0-rmse:14.87415 validation\_1-rmse:14.95921

[6] validation\_0-rmse:13.65443 validation\_1-rmse:13.74301

[7] validation\_0-rmse:12.55061 validation\_1-rmse:12.64344

[8] validation\_0-rmse:11.55760 validation\_1-rmse:11.65372

[9] validation\_0-rmse:10.67638 validation\_1-rmse:10.77580

[10] validation\_0-rmse:9.92221 validation\_1-rmse:10.02534

[11] validation\_0-rmse:9.24397 validation\_1-rmse:9.34923

[12] validation\_0-rmse:8.63603 validation\_1-rmse:8.74622

[13] validation\_0-rmse:8.10635 validation\_1-rmse:8.22082

[14] validation\_0-rmse:7.64287 validation\_1-rmse:7.76119

[15] validation\_0-rmse:7.24378 validation\_1-rmse:7.36631

[16] validation\_0-rmse:6.89137 validation\_1-rmse:7.01653

[17] validation\_0-rmse:6.57714 validation\_1-rmse:6.70545

[18] validation\_0-rmse:6.28720 validation\_1-rmse:6.42035

[19] validation\_0-rmse:6.04332 validation\_1-rmse:6.18041

[20] validation\_0-rmse:5.82297 validation\_1-rmse:5.96453

[21] validation\_0-rmse:5.63410 validation\_1-rmse:5.78086

[22] validation\_0-rmse:5.46089 validation\_1-rmse:5.61147

[23] validation\_0-rmse:5.30732 validation\_1-rmse:5.46423

[24] validation\_0-rmse:5.17485 validation\_1-rmse:5.33692

[25] validation\_0-rmse:5.05630 validation\_1-rmse:5.22433

[26] validation\_0-rmse:4.94600 validation\_1-rmse:5.11982

[27] validation\_0-rmse:4.84987 validation\_1-rmse:5.02859

[28] validation\_0-rmse:4.77081 validation\_1-rmse:4.95303

[29] validation\_0-rmse:4.69724 validation\_1-rmse:4.88537

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Mean Squared Error: 14.154423153600321

Mean Absolute Error: 2.45169150420598

number\_of\_features 34

Process finished with exit code 0

## 12Hour

A graph with blue and orange lines

Description automatically generated

A graph with green and red lines

Description automatically generatedA graph with green and blue lines

Description automatically generated

A graph showing a line graph

Description automatically generated with medium confidenceA graph with a line and a line

Description automatically generated with medium confidence

A graph with green line and red line

Description automatically generatedA graph showing a line

Description automatically generated with medium confidence

### Output

[0] validation\_0-rmse:23.55211 validation\_1-rmse:23.65805

[1] validation\_0-rmse:21.43578 validation\_1-rmse:21.53211

[2] validation\_0-rmse:19.54214 validation\_1-rmse:19.62914

[3] validation\_0-rmse:17.84372 validation\_1-rmse:17.92200

[4] validation\_0-rmse:16.33896 validation\_1-rmse:16.41182

[5] validation\_0-rmse:14.98850 validation\_1-rmse:15.05632

[6] validation\_0-rmse:13.77687 validation\_1-rmse:13.84093

[7] validation\_0-rmse:12.71626 validation\_1-rmse:12.77704

[8] validation\_0-rmse:11.76846 validation\_1-rmse:11.82971

[9] validation\_0-rmse:10.91850 validation\_1-rmse:10.98159

[10] validation\_0-rmse:10.16372 validation\_1-rmse:10.22864

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Mean Squared Error: 17.180007575180912

Mean Absolute Error: 2.7519684167153464

number\_of\_features 58

## 24Hour

A graph of a graph

Description automatically generated with medium confidence

A graph showing a line graph

Description automatically generated with medium confidenceA graph showing the growth of a stock market

Description automatically generated with medium confidence

A graph showing the value of a stock market

Description automatically generatedA graph showing the growth of a company

Description automatically generated with medium confidence

A graph of a graph

Description automatically generatedA graph showing different colored lines

Description automatically generated

### Output

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Mean Squared Error: 17.180007575180912

Mean Absolute Error: 2.7519684167153464

number\_of\_features 58

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Mean Squared Error: 18.896613993481434

Mean Absolute Error: 2.918532882062141

number\_of\_features 106

Process finished with exit code 0