

IDS Dashboard

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TODAY'S PREDICTION

Rs 6.90

For DWTM on 2025-10-10

Powered by RandomForestRegressor

Features: OHLC, Volume, 3 lags

MEAN SQUARED ERROR

3.65

R² SCORE

0.994

PREDICTIONS TRACKED

10

Last 10 requests

Market Movers - All Stocks

DINT ▲ 4.12% (3 / 31)

Current

Change

Rs 79.89 +Rs 3.16

AMBL ▲ 7.8%

BCML ▲ 4.8%

DINT ▲ 4.1%

DEL ▲ 3.6%

EFGH ▲ 3.5%

AKBL ▼ 3.3%

BILF ▲ 3.0%

BAFL ▼ 3.0%

BIPL ▼ 2.9%

DSIL ▼ 2.7%

BOP ▼ 2.3%

BRR ▲ 2.2%

AICL ▼ 2.1%

DFSM ▲ 2.0%

ALAC ▼ 1.9%

AHL ▼ 1.5%

ATIL ▼ 1.4%

CYAN ▼ 1.1%

AGIC ▲ 1.0%

ASTM ▼ 1.0%

CWSM ▲ 0.9%

DWTM ▼ 0.7%

BAHL ▼ 0.5%

BOK ▼ 0.5%

AHCL ▲ 0.3%

ABL ▲ 0.3%

786 ▲ 0.1%

BIPLS ▲ 0.1%

ADM ▲ 0.0%

GENL ▲ 0.0%

CSL ▲ 0.0%

Recent Close Trend

Close price trend

DATE	NAME	CLOSE PRICE	VOLUME
2025-10-10	DWTM	Rs 6.90	1,250

Market Movers - All Stocks

DSIL ▼ 2.72% (10 / 31)

Current Change

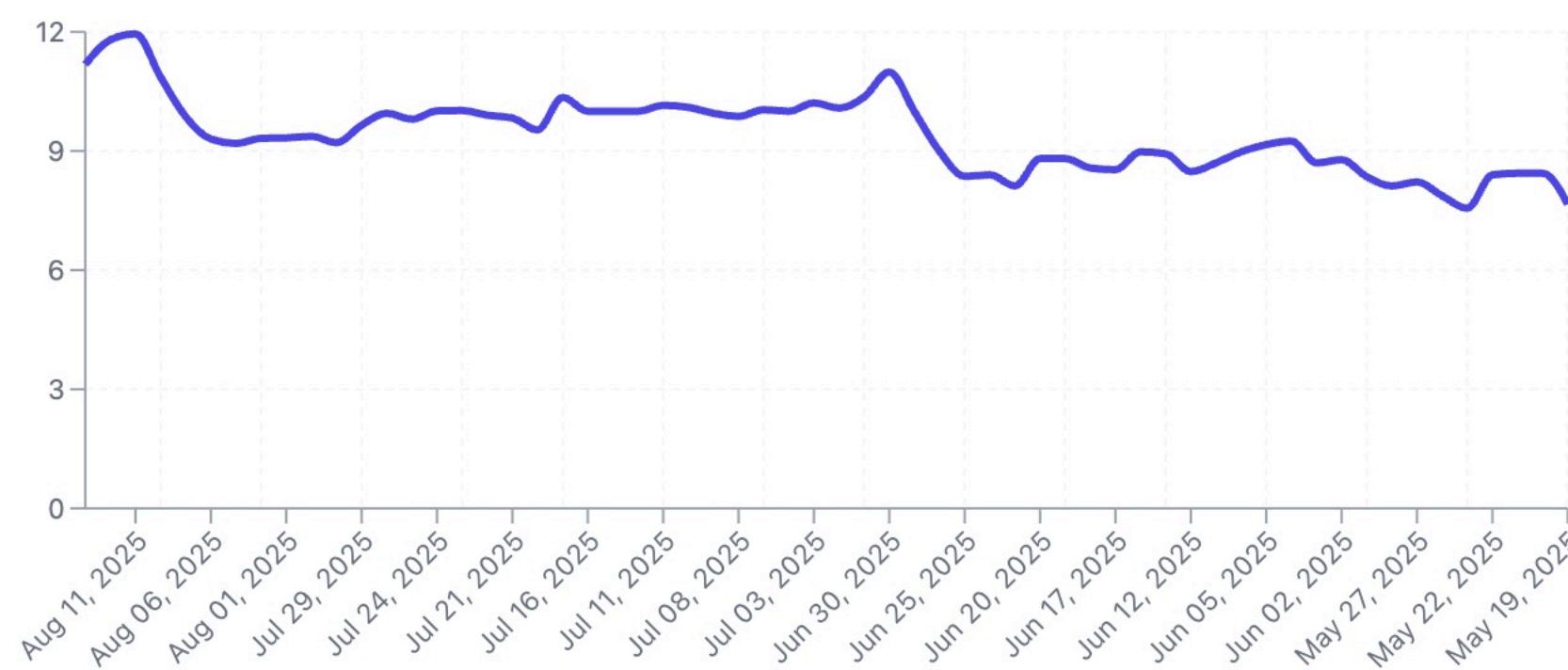
Rs 13.25 -Rs 0.37



AMBL ▲ 7.8%	BCML ▲ 4.8%	DINT ▲ 4.1%	DEL ▲ 3.6%	EFGH ▲ 3.5%	AKBL ▼ 3.3%	BILF ▲ 3.0%	BAFL ▼ 3.0%	BIPL ▼ 2.9%
DSIL ▼ 2.7%	BOP ▼ 2.3%	BRR ▲ 2.2%	AICL ▼ 2.1%	DFSM ▲ 2.0%	ALAC ▼ 1.9%	AHL ▼ 1.5%	ATIL ▼ 1.4%	CYAN ▼ 1.1%
ASTM ▼ 1.0%	CWSM ▲ 0.9%	DWTM ▼ 0.7%	BAHL ▼ 0.5%	BOK ▼ 0.5%	AHCL ▲ 0.3%	ABL ▲ 0.3%	786 ▲ 0.1%	BIPLS ▲ 0.1%
ADM ▲ 0.0%	CENI ▲ 0.0%	CSIL ▲ 0.0%						

Recent Close Trend

Close price trend



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Interactive Charts

Explore OHLC, volume, and prediction performance with professional visualizations.

📈 Close Price with Moving Averages

Actual Close vs 7-day and 30-day moving averages



🕯 Candlestick Chart (OHLC)

Professional candlestick visualization showing Open, High, Low, and Close prices



AGIC
AHCL
AHL
✓ AICL
AKBL
ALAC
AMBL
ARM
ASTM
ATIL
BAFL
BAHL
BCML
BILF
BIPL
BIPLS
BOK
BOP
BRR
CENI
CSIL
CWSM
CYAN
DEL
DFSM
DINT
DSIL
DWTM
EFGH

 Interactive Charts

Explore OHLC, volume, and prediction performance with professional visualizations.

AICL ▾

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📈 Close Price with Moving Averages

Actual Close vs 7-day and 30-day moving averages



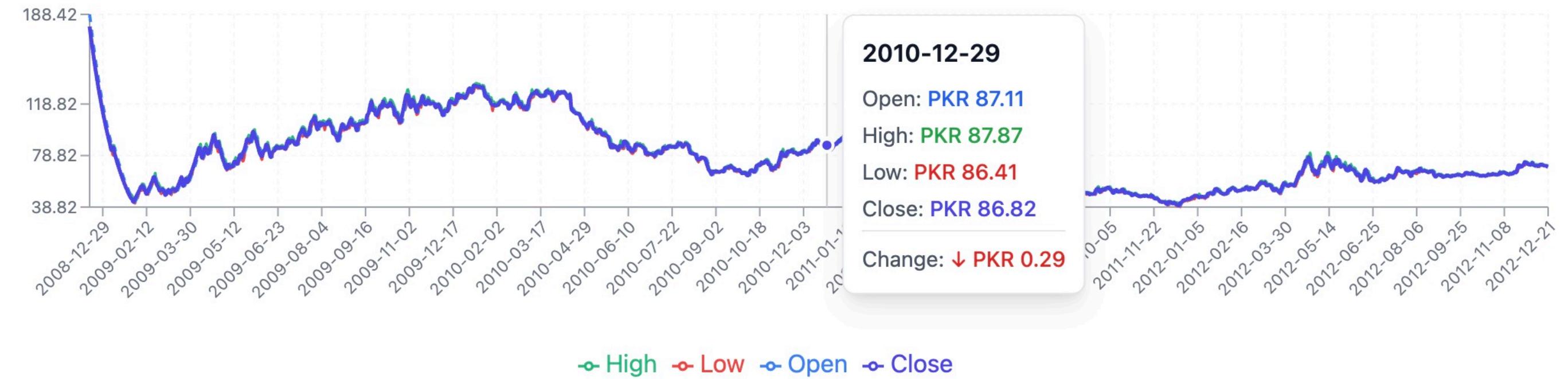
🕯 Candlestick Chart (OHLC)

Professional candlestick visualization showing Open, High, Low, and Close prices



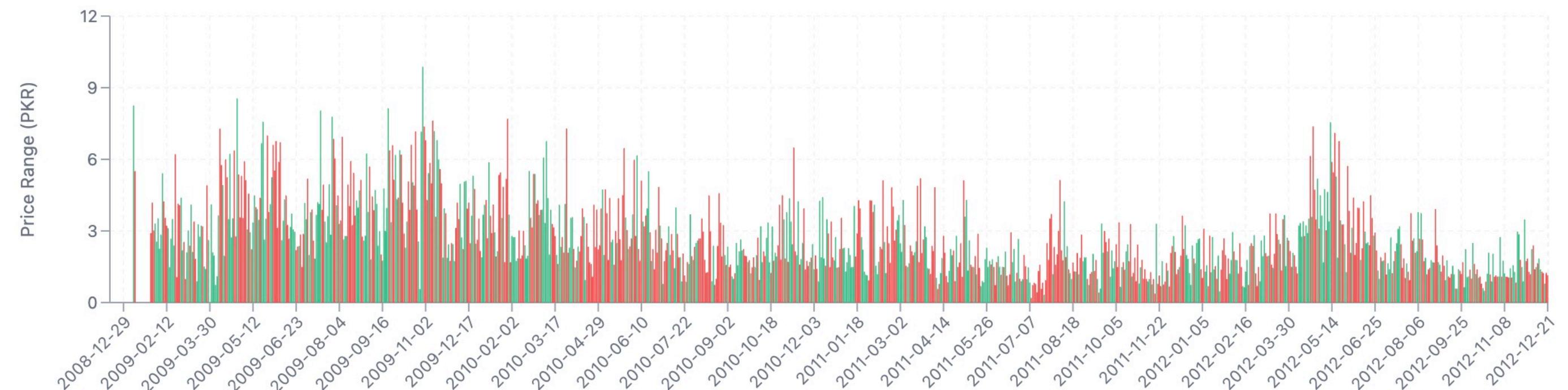
🕯 Candlestick Chart (OHLC)

Professional candlestick visualization showing Open, High, Low, and Close prices



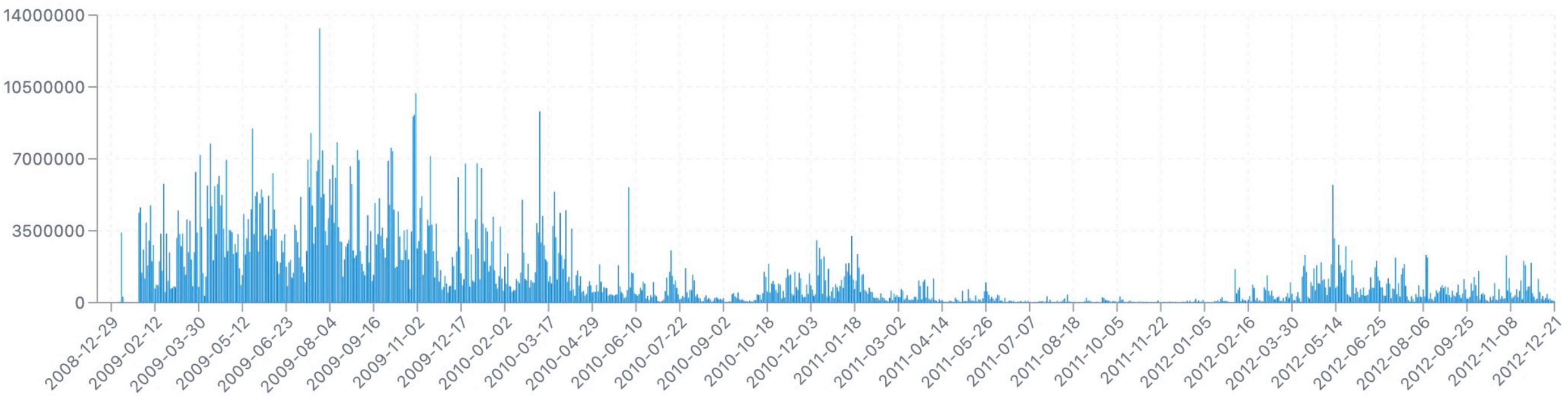
📊 Daily Price Range (High - Low)

Bar chart showing the price range (volatility) for each trading day



Trading Volume

Daily traded volume bars



Prediction vs Actual

Actual close series (line) with predicted points overlaid



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Predict Close Price

Provide today's market inputs to estimate the next close price for a PSX script.

Date

01/02/2025

Stock Name

786

✓ Data Fetched Successfully**Open:****PKR 8.52****High:****PKR 8.95****Low:****PKR 8.52****Volume:****86,923****Predict Close Price**

Recent Predictions

[Last 10 submissions](#)

DATE	NAME	CLOSE PRICE	VOLUME
2025-10-10	DWTM	Rs 6.90	1,250
2025-10-10	DSIL	Rs 13.25	1,460,407
2025-10-10	DINT	Rs 79.89	28
2025-10-09	786	Rs 12.89	51,469
2025-10-09	CSIL	Rs 6.45	10,946,864
2025-10-09	BIPL	Rs 38.62	1,663,432
2025-10-09	ABL	Rs 197.94	831,254
2025-10-09	BOK	Rs 35.64	47,139

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Predict Close Price

Provide today's market inputs to estimate the next close price for a PSX script.

Prediction generated successfully.

Date

Stock Name


Select Date & Stock
PREDICTED CLOSE

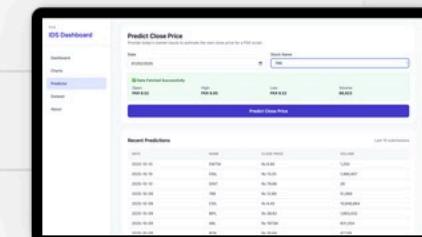
Rs 8.70

Using lag values: close: Rs 8.70, high: Rs 8.95, low: Rs 8.52, open: Rs 8.52, volume: Rs 86,923.00

Recent Predictions

[Last 10 submissions](#)

DATE	NAME	CLOSE PRICE	VOLUME
2025-10-10	DWTM	Rs 6.90	1,250
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Dataset Explorer

Search, filter, and paginate Pakistan Stock Exchange records.

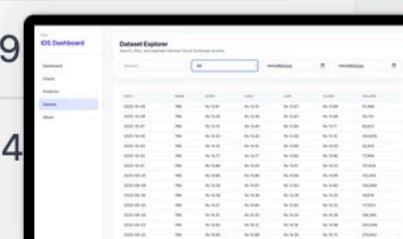
All

DATE	NAME	OPEN	HIGH	LOW	CLOSE	VOLUME
2025-10-09	786	Rs 12.91	Rs 13.10	Rs 12.87	Rs 12.89	51,469
2025-10-08	786	Rs 13.30	Rs 13.30	Rs 12.83	Rs 12.88	45,110
2025-10-07	786	Rs 13.10	Rs 13.45	Rs 12.90	Rs 13.11	60,627
2025-10-06	786	Rs 14.20	Rs 14.20	Rs 12.60	Rs 13.16	454,676
2025-10-03	786	Rs 14.10	Rs 14.15	Rs 13.90	Rs 14.00	52,610
2025-10-02	786	Rs 14.77	Rs 14.77	Rs 13.80	Rs 13.90	77,994
2025-10-01	786	Rs 14.86	Rs 15.00	Rs 13.41	Rs 14.23	101,824
2025-09-30	786	Rs 14.80	Rs 15.86	Rs 14.80	Rs 14.86	152,855
2025-09-29	786	Rs 14.39	Rs 15.67	Rs 12.83	Rs 14.80	330,895
2025-09-26	786	Rs 14.36	Rs 14.36	Rs 13.28	Rs 14.25	18,678
2025-09-25	786	Rs 14.21	Rs 14.60	Rs 12.92	Rs 14.32	117,833
2025-09-24	786	Rs 15.10	Rs 15.70	Rs 14.25	Rs 14.36	106,365
2025-09-23	786	Rs 15.83	Rs 16.12	Rs 14.16	Rs 14.98	243,448
2025-09-22	786	Rs 14.60	Rs 15.98	Rs 14.30	Rs 15.73	574,642

Date	Quantity	Rs Price	Rs Price	Rs Price	Rs Price	Total
2025-08-27	786	Rs 11.63	Rs 11.64	Rs 11.30	Rs 11.62	13,437
2025-08-26	786	Rs 12.39	Rs 12.39	Rs 11.31	Rs 11.64	73,270
2025-08-25	786	Rs 11.51	Rs 11.99	Rs 11.22	Rs 11.88	108,176
2025-08-22	786	Rs 10.40	Rs 11.45	Rs 10.39	Rs 11.30	366,713
2025-08-21	786	Rs 10.60	Rs 10.60	Rs 10.35	Rs 10.41	33,485
2025-08-20	786	Rs 10.89	Rs 10.89	Rs 10.40	Rs 10.60	31,085
2025-08-19	786	Rs 10.95	Rs 10.95	Rs 10.50	Rs 10.59	38,416
2025-08-18	786	Rs 10.91	Rs 11.09	Rs 10.51	Rs 10.56	33,775
2025-08-15	786	Rs 11.21	Rs 11.50	Rs 10.99	Rs 11.03	36,714
2025-08-13	786	Rs 12.00	Rs 12.00	Rs 11.15	Rs 11.18	138,204
2025-08-12	786	Rs 12.40	Rs 12.49	Rs 11.27	Rs 11.80	531,490
2025-08-11	786	Rs 11.95	Rs 11.95	Rs 11.49	Rs 11.95	745,268
2025-08-08	786	Rs 9.95	Rs 10.86	Rs 9.60	Rs 10.86	348,692
2025-08-07	786	Rs 9.35	Rs 10.30	Rs 9.35	Rs 9.86	513,878
2025-08-06	786	Rs 9.06	Rs 9.34	Rs 9.06	Rs 9.30	8,144
2025-08-05	786	Rs 9.17	Rs 9.29	Rs 9.00	Rs 9.19	100,198
2025-08-04	786	Rs 9.13	Rs 9.58	Rs 9.13	Rs 9.32	2,613
2025-08-01	786	Rs 9.39	Rs 9.86	Rs 9.06	Rs 9.33	45,729
2025-07-31	786	Rs 9.03	Rs 9.71	Rs 9.03	Rs 9.37	39,244

Showing 1-50 of 92,183 rows

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About the IDS Dashboard

This interactive dashboard brings together PSX historical data, a trained RandomForestRegressor, and FastAPI services to power intelligence, visualization, and rapid predictions.

Model Performance

Evaluated on the lagged dataset used for training.

MSE

3.653

R² Score

0.994

Dataset Summary

Source: dataset.csv bundled with this project.

Total Rows

50

Unique Stocks

1

Date Range

2025-07-30 → 2025-10-08

Prediction Logic

- Incoming requests convert Date fields to epoch seconds, matching the training features.
- LabelEncoder (`labelencoder_name.pkl`) converts stock names to numeric encodings.
- Lag features ($\text{close}_{t-1} \dots \text{close}_{t-3}$) are sourced from the dataset or recent predictions to preserve continuity.
- The serialized RandomForestRegressor (`model.pkl`) outputs the close estimate, surfaced via FastAPI.

Model Metadata

Algorithm

RandomForestRegressor (100 trees, random_state=42)

Features

Date timestamp, OHLC, Volume, Name (LabelEncoder), Close lag 1-3

Targets

Daily Close price per PSX script

This interactive dashboard brings together PSX historical data, a trained RandomForestRegressor, and FastAPI services to power intelligence, visualization, and rapid predictions.

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Features

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Targets

Daily Close price per PSX script

Origin

Trained via file.py using dataset.csv