Stock Price Prediction :

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Enter Stock Ticker (e.g. AAPL,0005.hk,...) :

AAPL

Select Start Date

2019/01/01

Select End Date

2024/12/31

Select Trading Signal Days :

5   −   +

Select Technical Indicator(s) :

- ✅ Trend : MACD & DMI
- ✅ Momentum : RSI & KDJ
- ✅ Volatility : BB & BIAS

Select Prediction Model(s) :

- ✅ XGBoost
- ✅ Create new GRU
- ☐ Load saved GRU
- ✅ Create new LSTM
- ☐ Load saved LSTM
- ✅ Create new LSTM - Attention Mechanism
- ☐ Load saved LSTM - Attention Mechanism
- ✅ Create new LSTM - Features
- ☐ Load saved LSTM - Features

Submit

AAPL

Stock Data

	Date	Open	High	Low	Close	Adj Close	Volume
0	2019-01-02	38.7225	39.7125	38.5575	39.48	37.7501	148,158,800
1	2019-01-03	35.995	36.43	35.5	35.55	33.9899	365,248,800
2	2019-01-04	36.1325	37.1375	35.95	37.06	35.4409	234,428,400
3	2019-01-07	37.175	37.2075	36.475	36.98	35.362	219,111,200
4	2019-01-08	37.39	37.955	37.13	37.69	36.0361	164,101,200
5	2019-01-09	37.8225	38.6325	37.4075	38.33	36.6481	180,396,400
6	2019-01-10	38.125	38.4925	37.715	38.45	36.7652	143,122,800
7	2019-01-11	38.22	38.425	37.8775	38.07	36.4043	108,092,800
8	2019-01-14	37.7125	37.8175	37.305	37.5	35.8568	129,756,800
9	2019-01-15	37.5675	38.3475	37.5125	38.27	36.5907	114,843,600

Close Price of Current Date 2024-10-11 is 227.55

Close Prices w/ Exponential Moving Average (Trend)
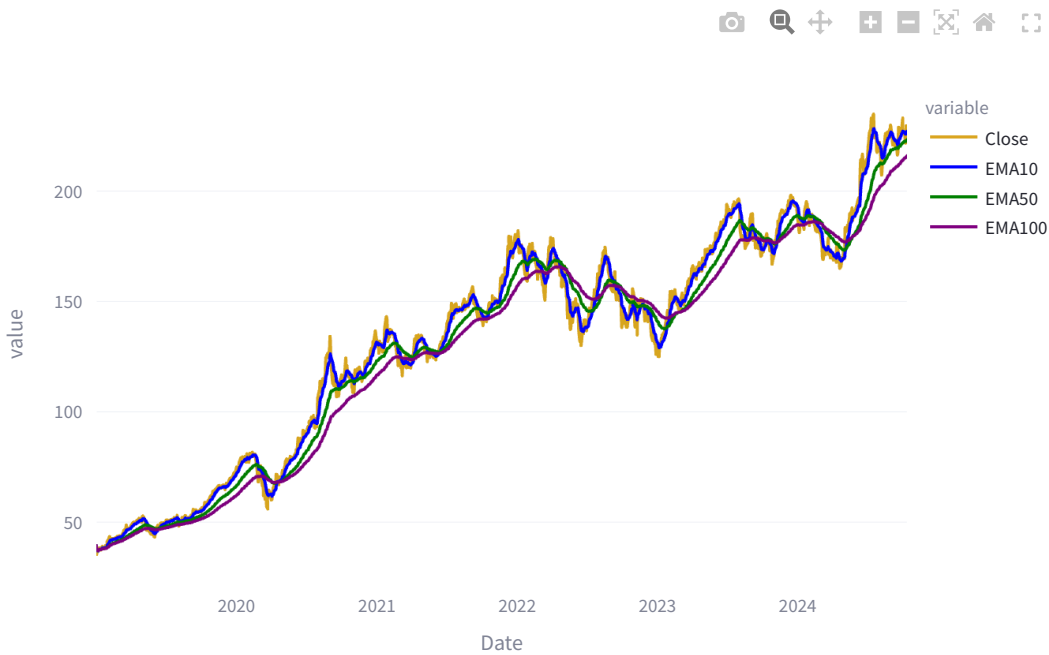
EMA10 Buy Signal :

EMA10 Sell Signal :

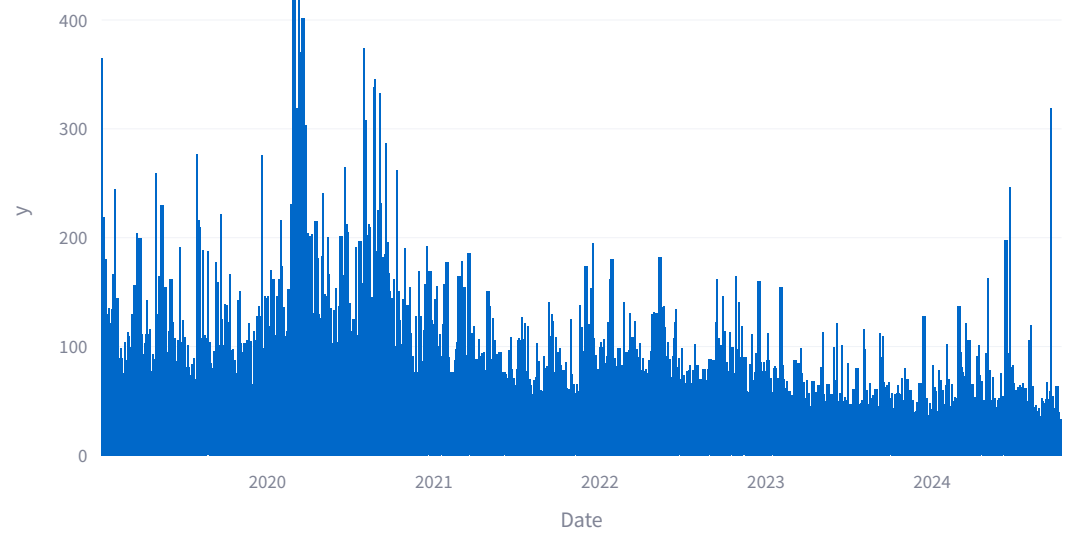EMA50 Buy Signal :

EMA50 Sell Signal :

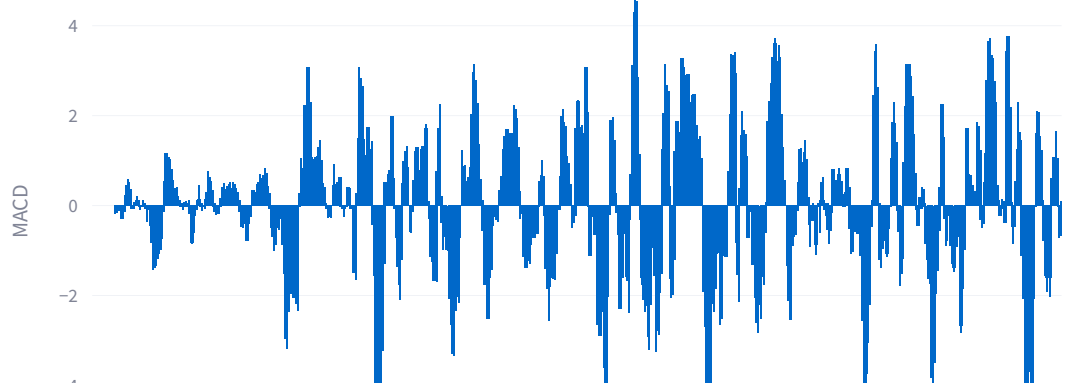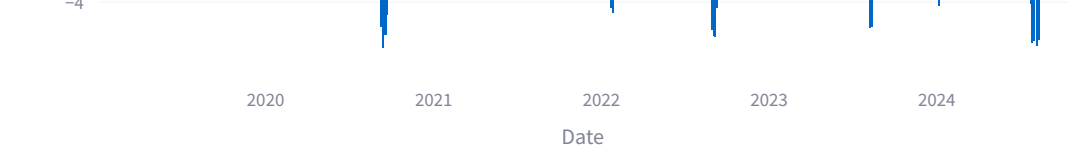EMA100 Buy Signal :

EMA100 Sell Signal :

Candlestick Chart

Volume

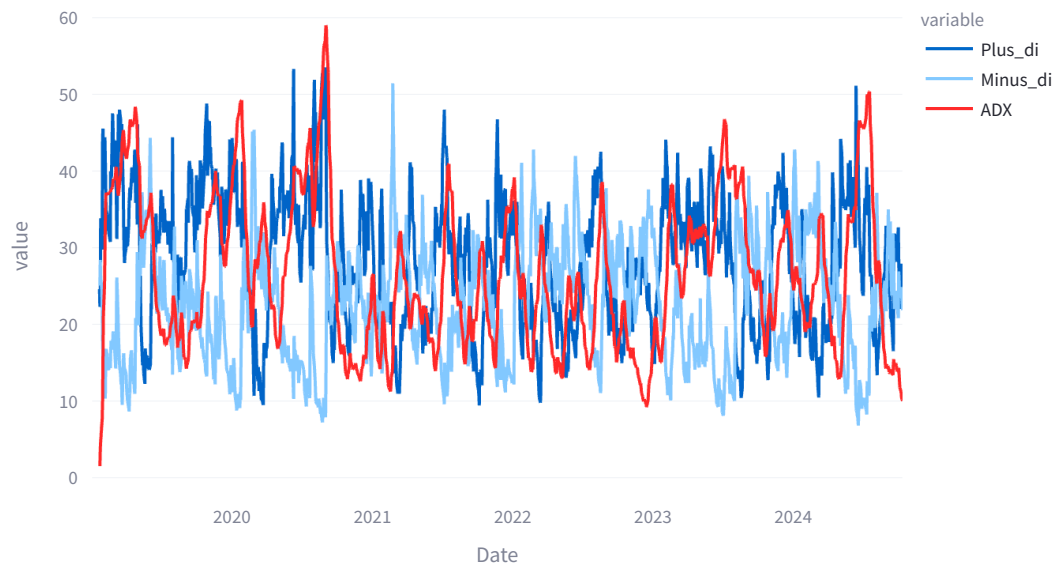## Moving Average Convergence Divergence (Trend)

MACD Buy Signal : 2024-10-10,
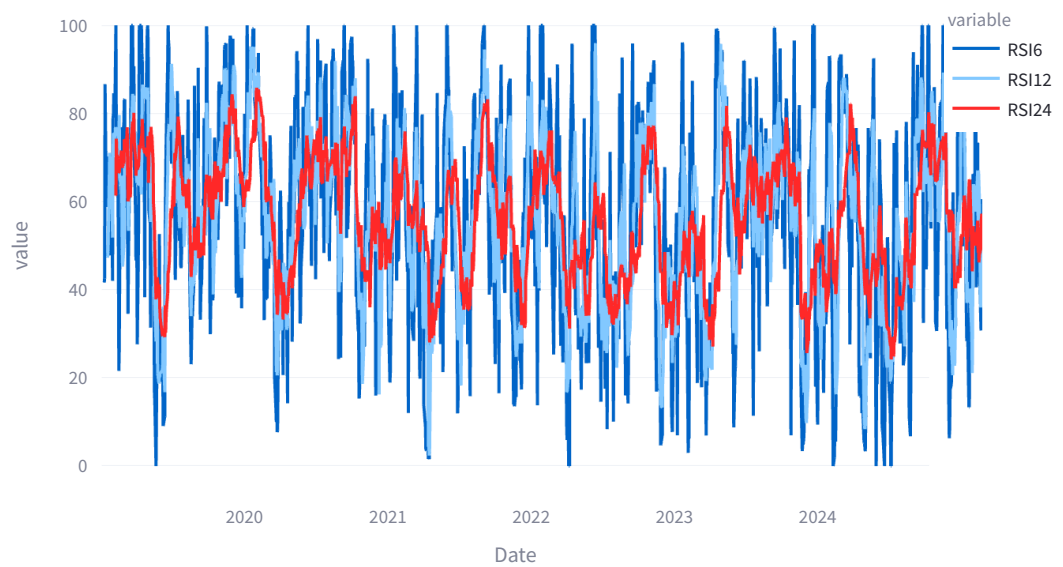
MACD Sell Signal :

Directional Movement Index (Trend)

DMI Buy Signal :
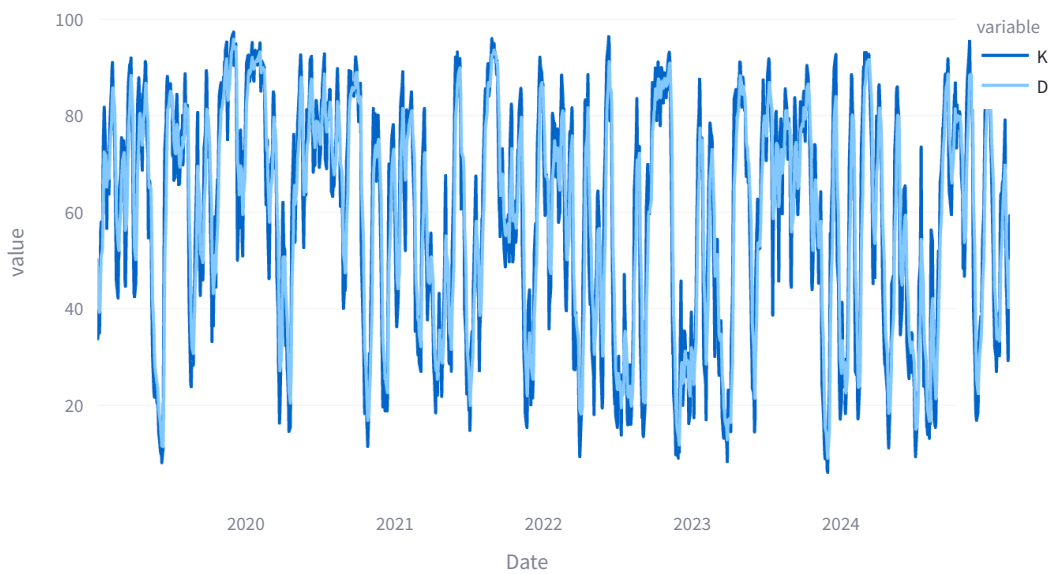
DMI Sell Signal :

Relative Strength Index (Momentum)
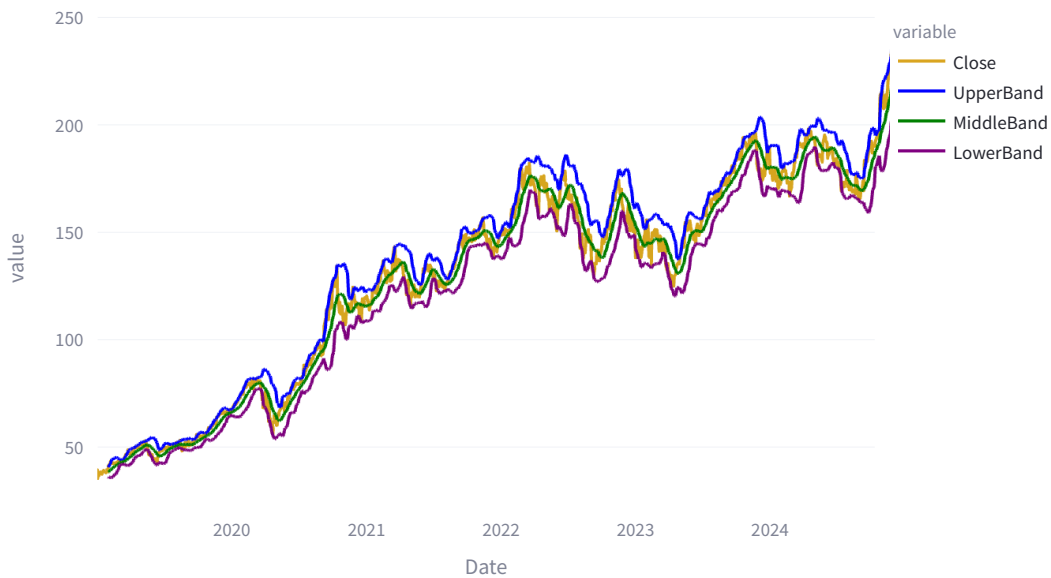

RSI Buy Signal :

RSI Sell Signal :

KDJ (Momentum)

KDJ Buy Signal :

KDJ Sell Signal :

Bollinger Bands (Volatility)

BB Buy Signal :

BB Sell Signal :

BIAS (Volatility)
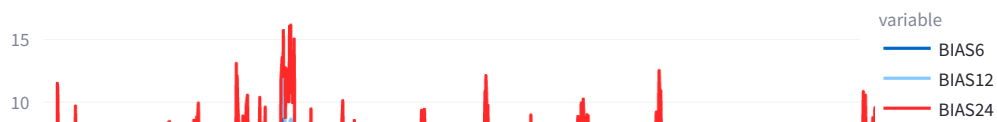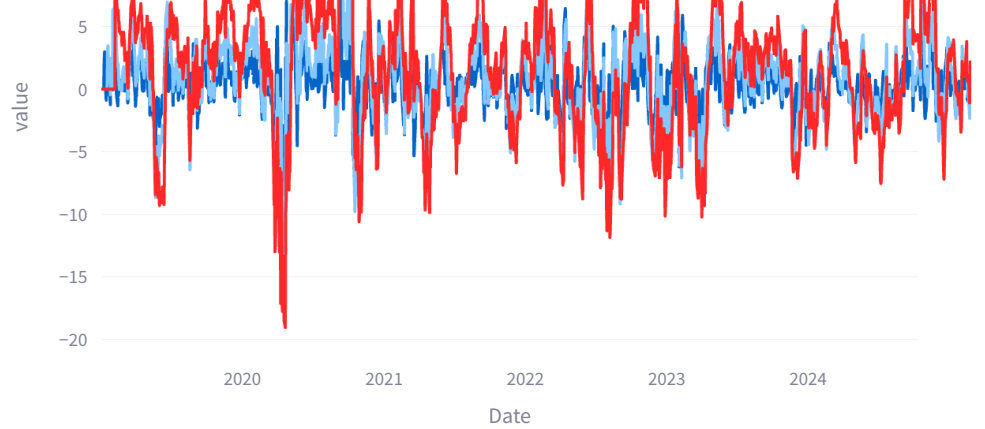
BIAS Buy Signal :

BIAS Sell Signal :

Resisitance & Support Levels

Resistance Levels : 233.0 (2024-09-30),

Support Levels : 207.23 (2024-08-06),

eXtreme Gradient Boosting Model

Predicts next Close Price of 2024-10-11 is : [227.5022]

MAPE : 0.009312

Root mean squared error: 1.533122

Mean absolute error : 1.135356

Gated Recurrent Unit Model

Predicts next Close Price of 2024-10-11 is : [226.88037]

MAPE : 0.015396

Root mean squared error: 3.834617

Mean absolute error : 2.988683

Long Short Term Memory Model

Predicts next Close Price of 2024-10-11 is : [218.90921]

MAPE : 0.02989

Root mean squared error: 7.388637

Mean absolute error : 5.932343

Long Short Term Memory - Attention Mechanism Model

Predicts next Close Price of 2024-10-11 is : [221.62709]

MAPE : 0.197662

Root mean squared error: 39.723919

Mean absolute error : 38.703367

Long Short Term Memory - Features (Tech. Indicators) Model

Predicts next Close Price of 2024-10-11 is : [220.12093]

MAPE : 0.020932

Root mean squared error: 5.81131

Mean absolute error : 4.39531

{ Note : Selected model(s) predict(s) next Close Price(s) would not go up, recommend to 'sell or 'not Buy'. }

Full Stock Data

	Date	Open	High	Low	Close	Adj Close	Volume	SMA10	SMA50	EM/
0	2019-01-02	38.7225	39.7125	38.5575	39.48	37.7501	148,158,800	None	None	
1	2019-01-03	35.995	36.43	35.5	35.55	33.9899	365,248,800	None	None	37
2	2019-01-04	36.1325	37.1375	35.95	37.06	35.4409	234,428,400	None	None	37
3	2019-01-07	37.175	37.2075	36.475	36.98	35.362	219,111,200	None	None	37
4	2019-01-08	37.39	37.955	37.13	37.69	36.0361	164,101,200	None	None	3
5	2019-01-09	37.8225	38.6325	37.4075	38.33	36.6481	180,396,400	None	None	37
6	2019-01-10	38.125	38.4925	37.715	38.45	36.7652	143,122,800	None	None	37
7	2019-01-11	38.22	38.425	37.8775	38.07	36.4043	108,092,800	None	None	37
8	2019-01-14	37.7125	37.8175	37.305	37.5	35.8568	129,756,800	None	None	37
9	2019-01-15	37.5675	38.3475	37.5125	38.27	36.5907	114,843,600	37.738	None	37