



Bitcoin Price Prediction using Time Series Models

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bitcoin_data.csv 510KB



Raw & Cleaned Data Overview

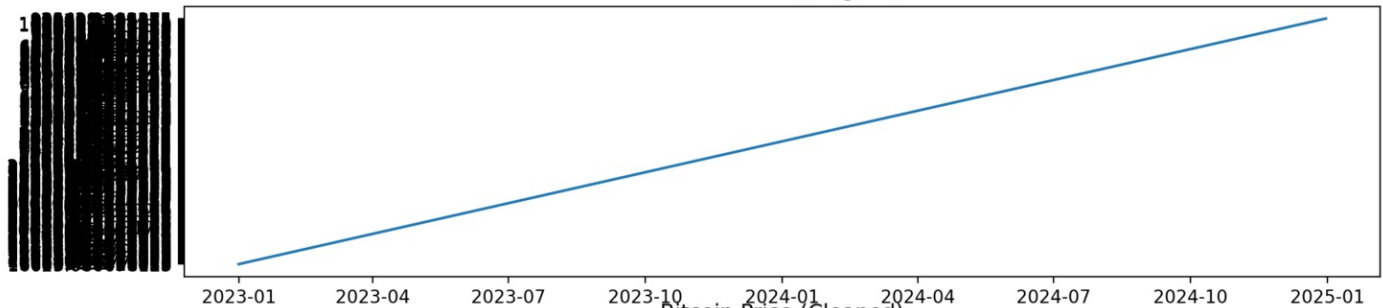
Missing values before forward fill:

	0
Close	0
High	0
Low	0
Open	0
Volume	0

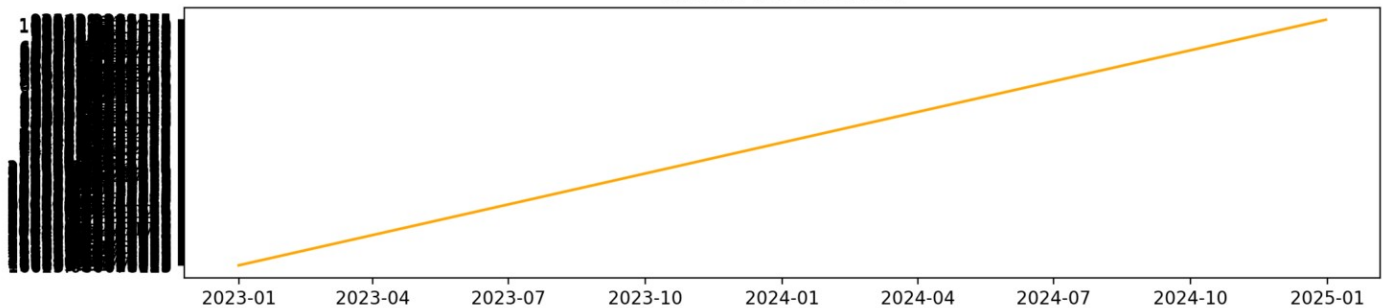
Missing values after forward fill:

	0
Close	0
High	0
Low	0
Open	0
Volume	0

Bitcoin Price (Original)



Bitcoin Price (Cleaned)

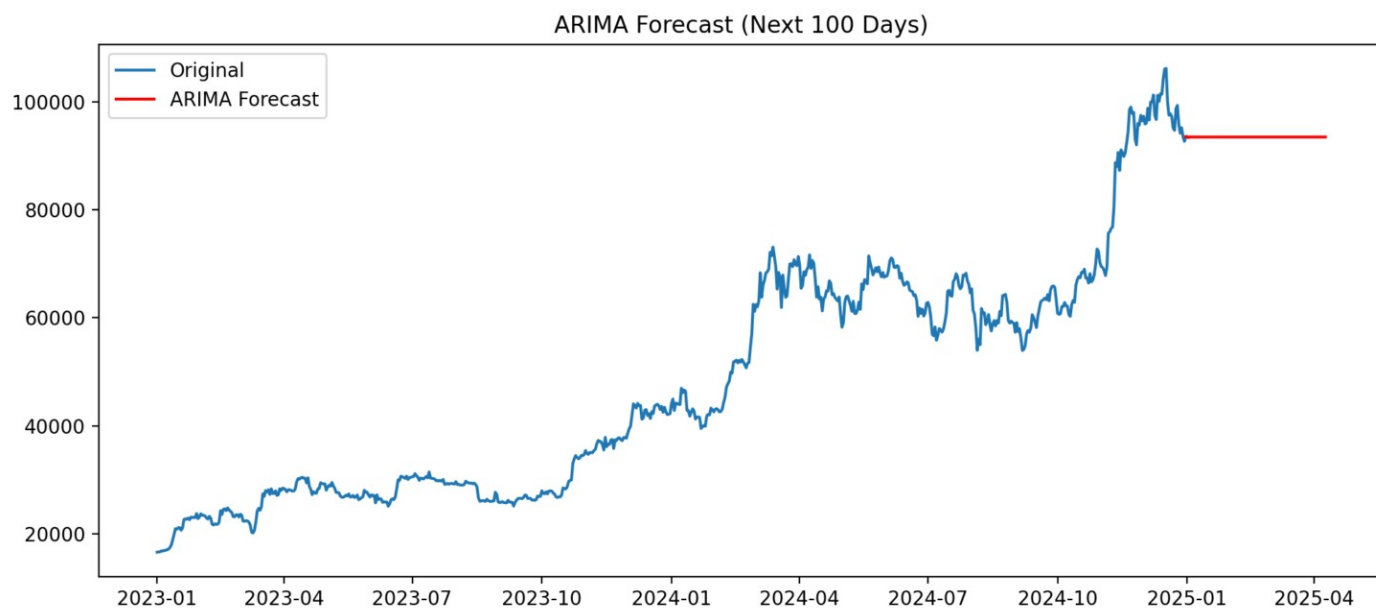


Stationarity Check - ADF Test

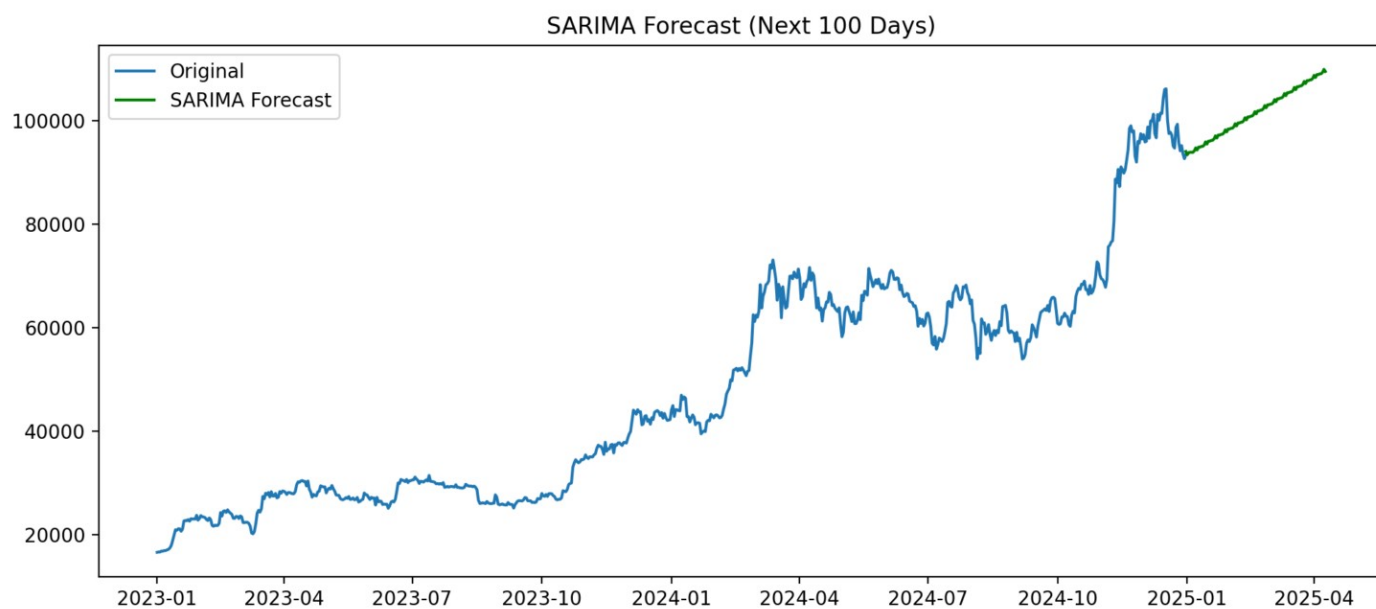
ADF Statistic: 0.29137938788515355

p-value: 0.9769455026047971

ARIMA Forecast (Next 100 Days)

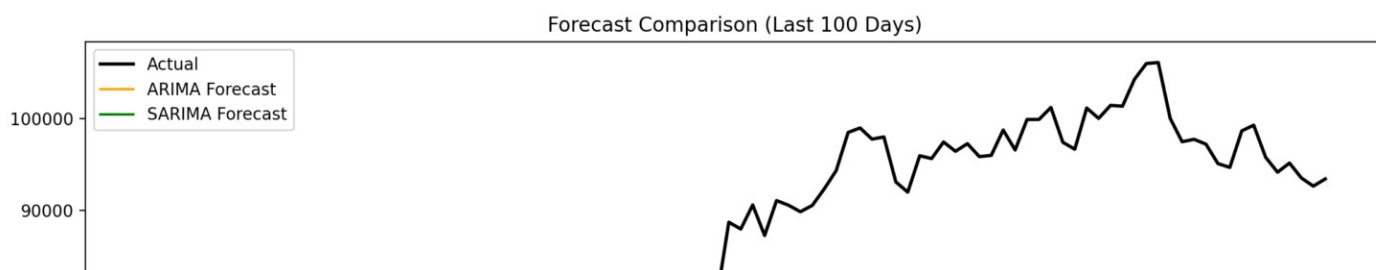


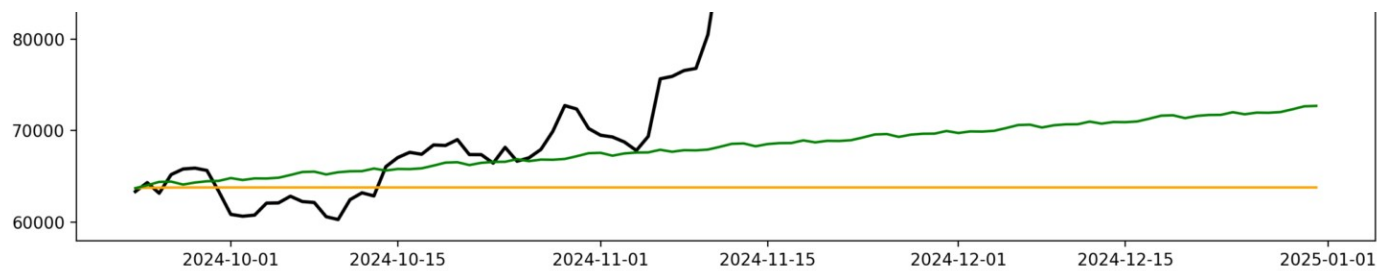
SARIMA Forecast (Next 100 Days)



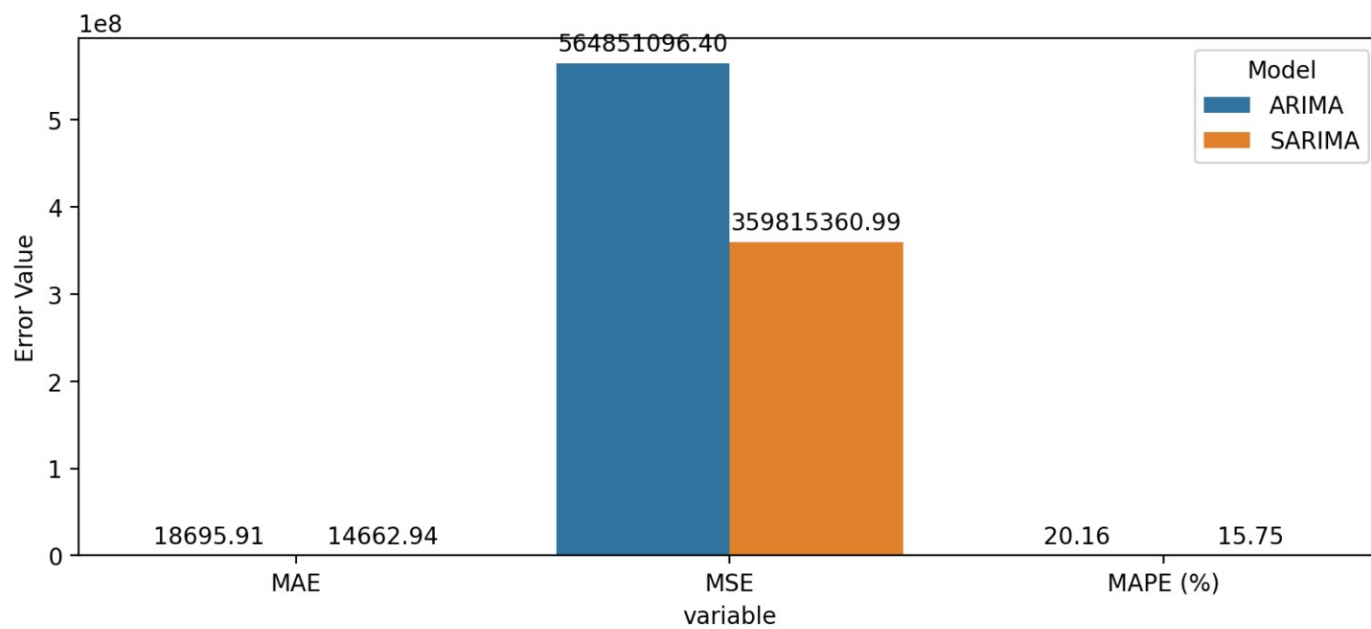
Model Comparison on Last 100 Days

	Model	MAE	MSE	MAPE (%)
0	ARIMA	18695.9132	564851096.3986	20.1593
1	SARIMA	14662.9444	359815360.9873	15.748





Error Metrics Comparison



Average Predicted Prices for 2025

ARIMA March 2025 Avg Price: 93450.31 USD

SARIMA March 2025 Avg Price: 105623.19 USD

ARIMA April 2025 Avg Price: 93450.31 USD

SARIMA April 2025 Avg Price: 109065.48 USD