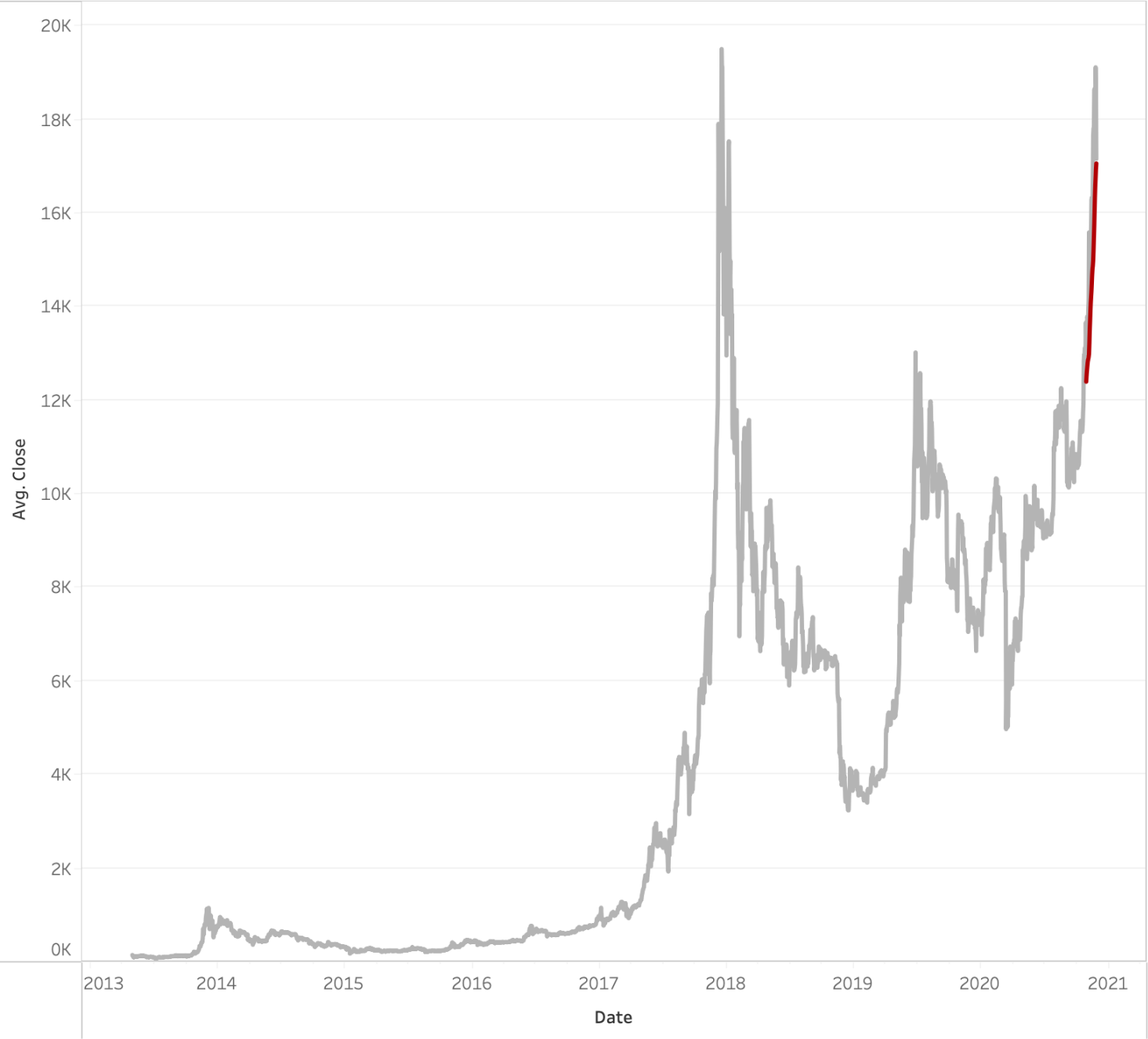
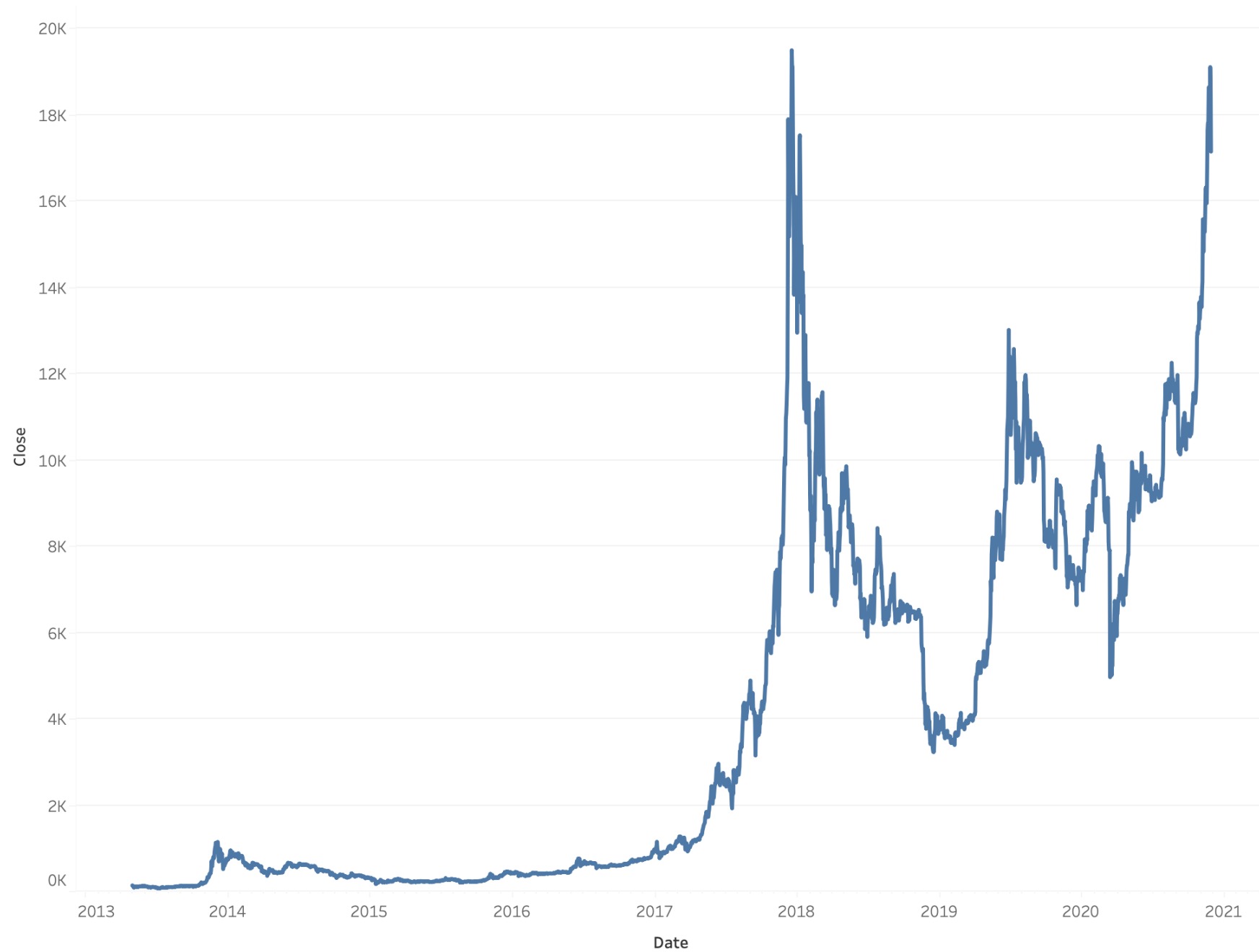


Actual vs Best Forecast

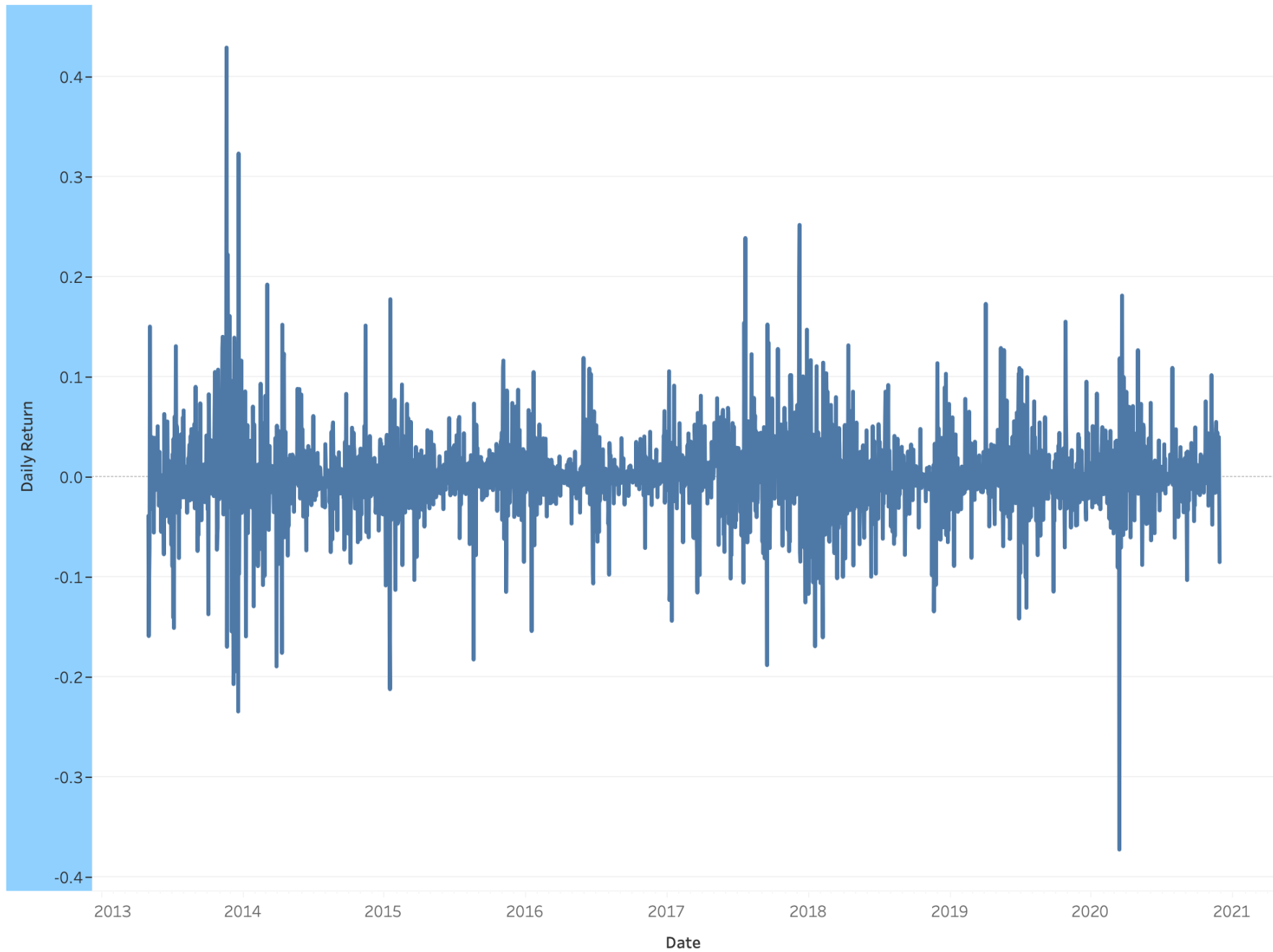
Measure Names
■ Avg. Best Forecast.



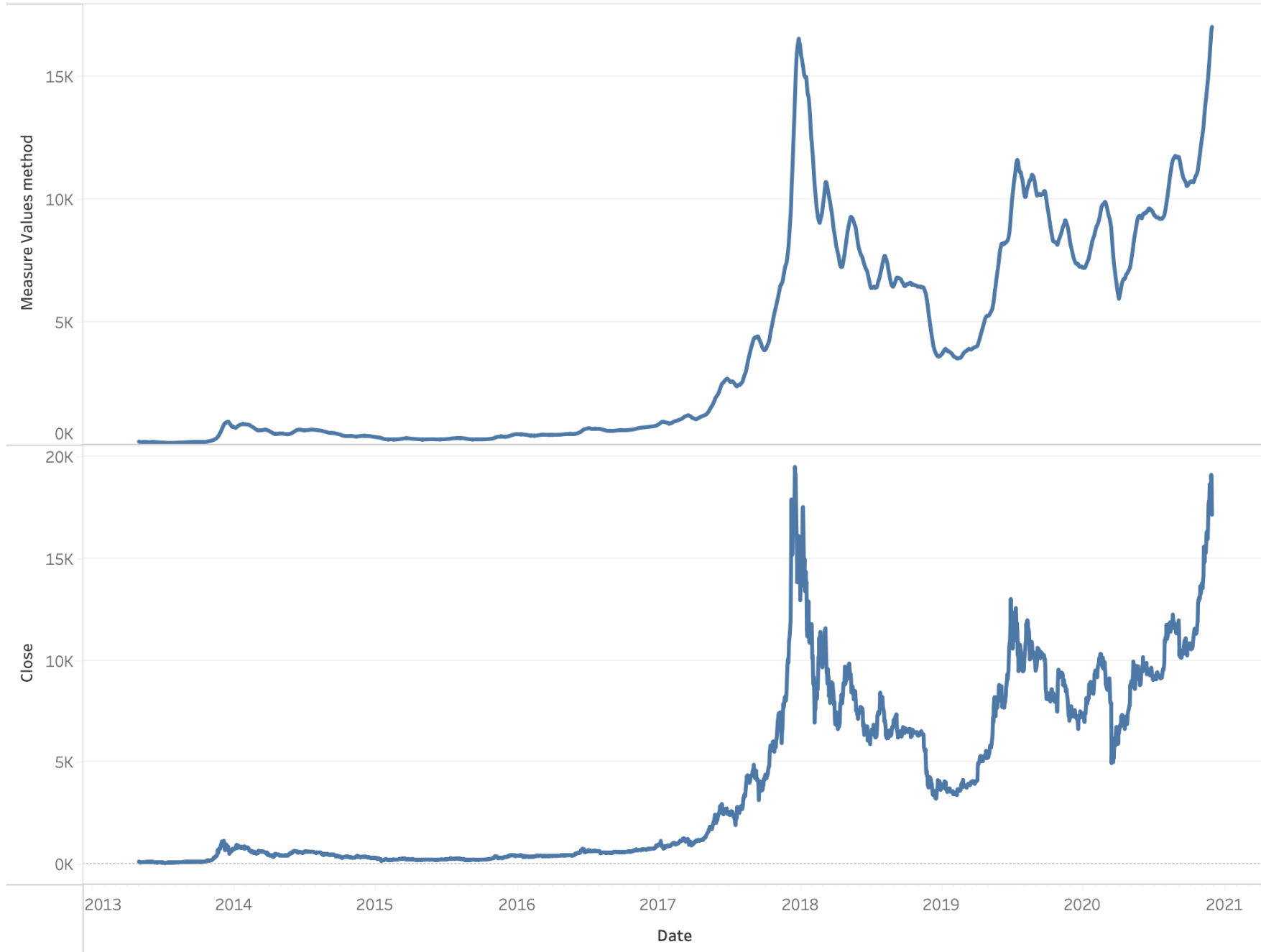
Historical Bitcoin Price Trend



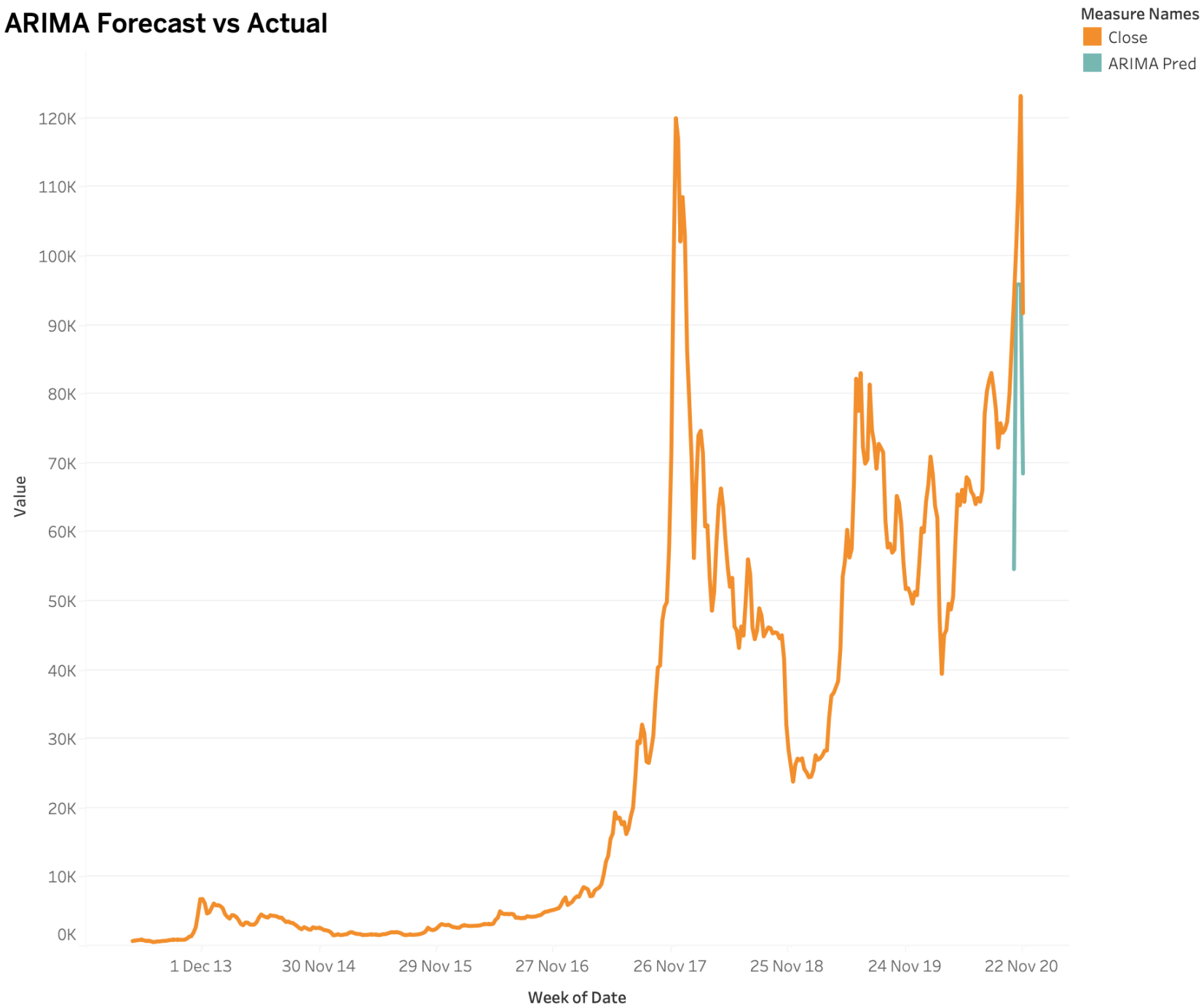
Daily Returns (Volatility) Over Time



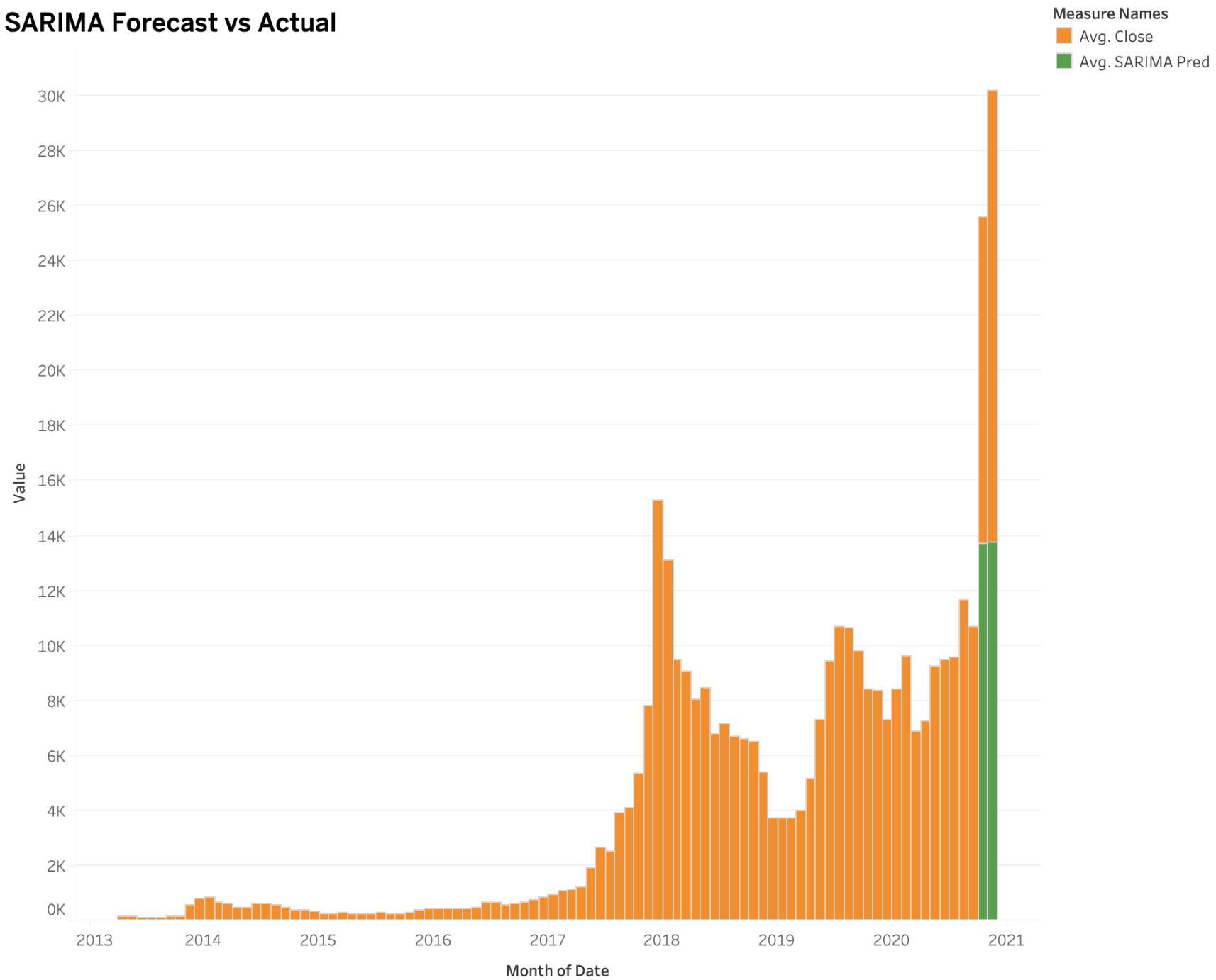
Trend using Moving Averages



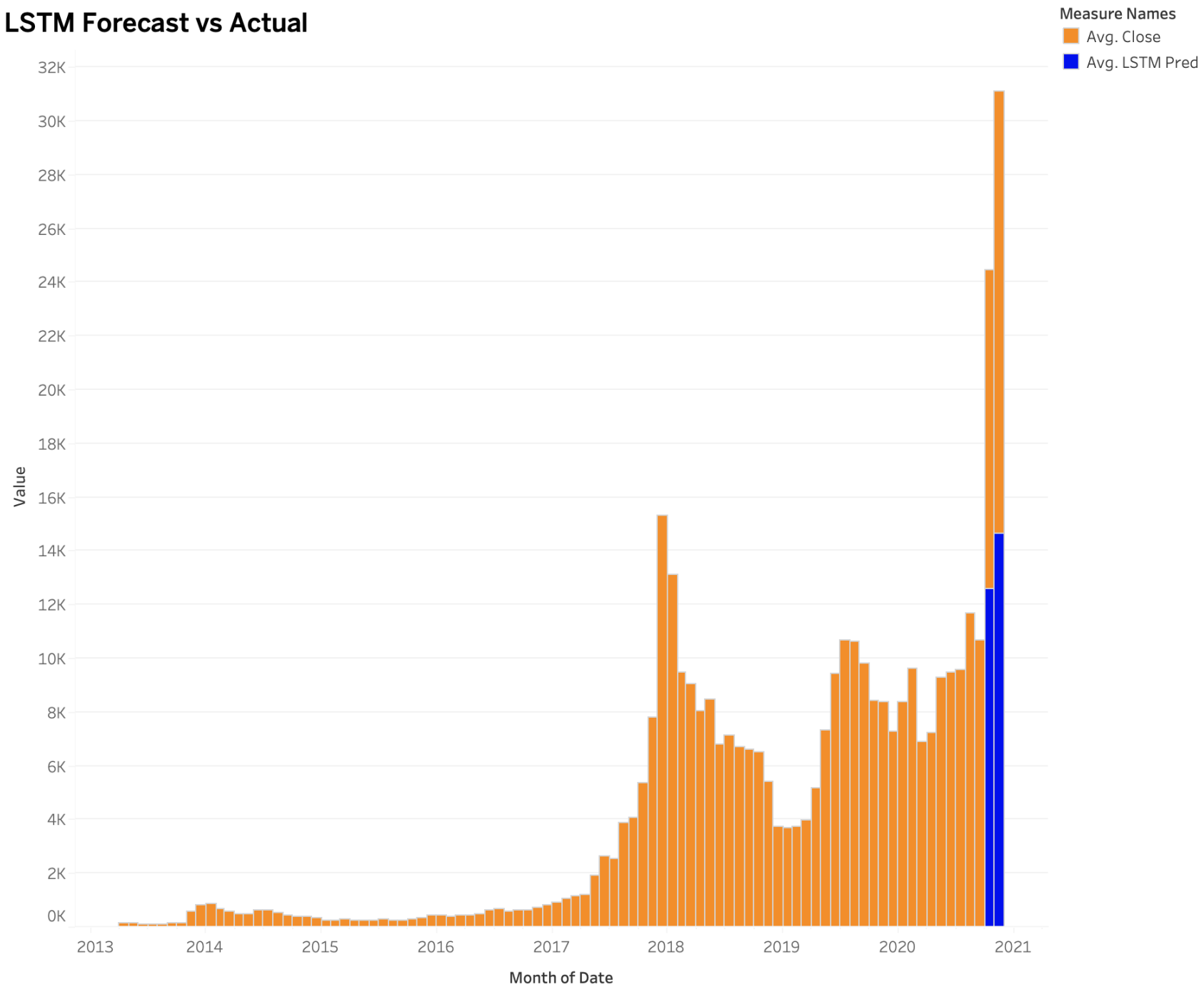
ARIMA Forecast vs Actual



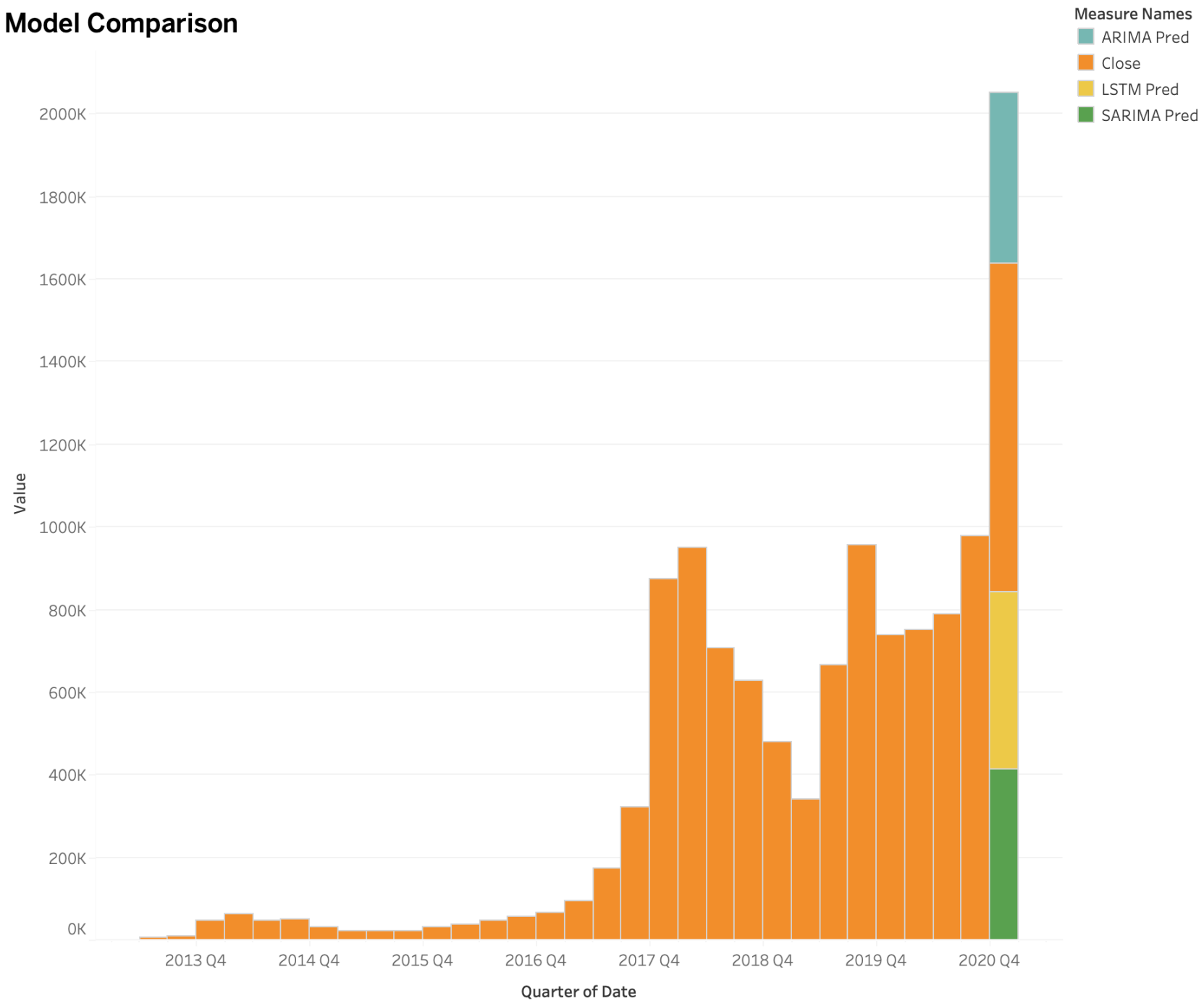
SARIMA Forecast vs Actual



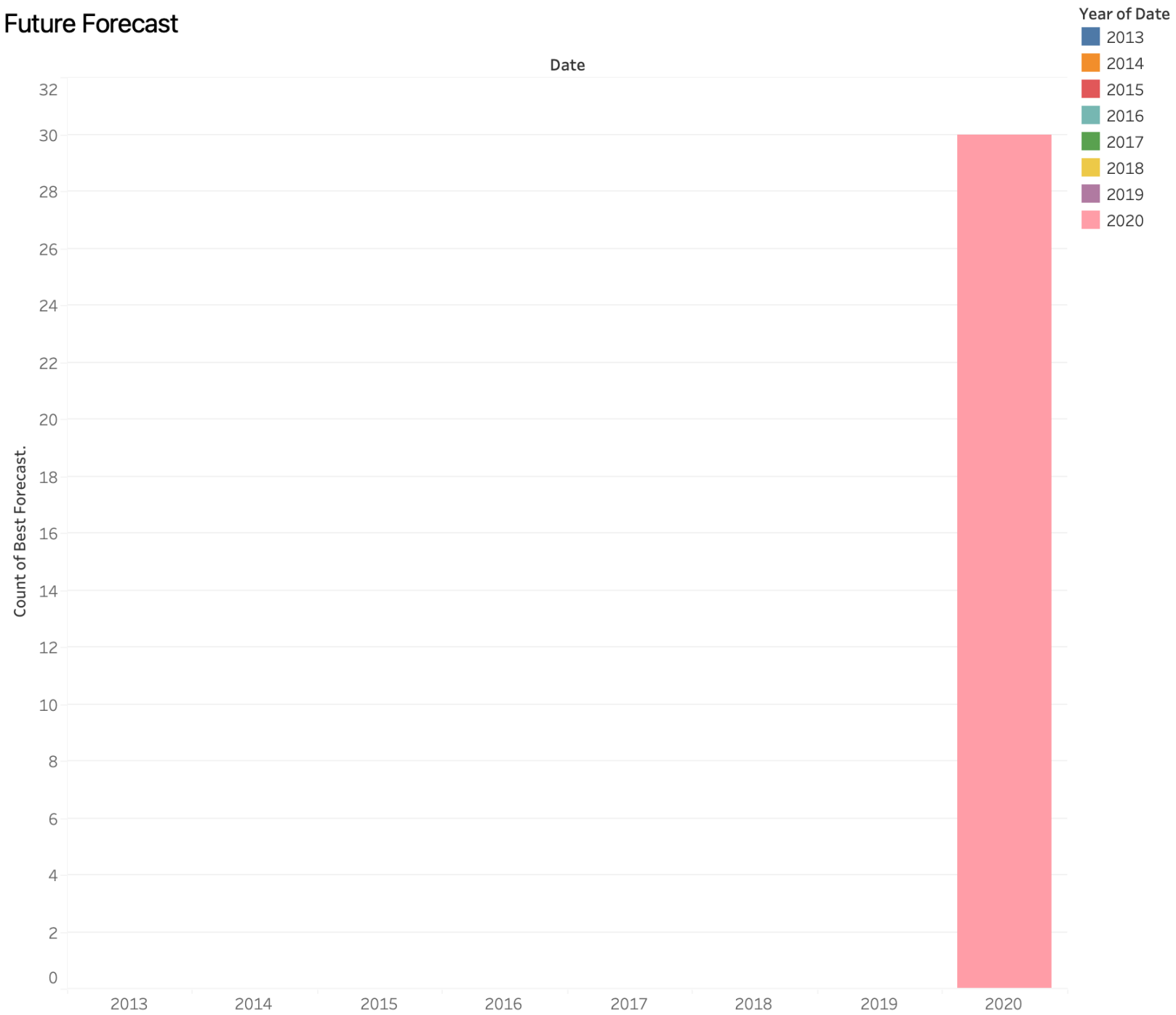
LSTM Forecast vs Actual



Model Comparison



Future Forecast



Insights & Conclusion

Key Insights

Bitcoin price shows strong long-term uptrend with high volatility

Major spikes observed around 2017–2018 and 2020–2021..

Best Model (Conclusion)

Best performing model: **LSTM / SARIMA / ARIMA** (choose your best)

Reason: Lower prediction error compared to other models..

Measure Names

- ARIMA Pred
- Close
- LSTM Pred
- SARIMA Pred

Limitations

Crypto market is highly unpredictable

Sudden news/events cause sharp price jumps

Model accuracy reduces during extreme volatility periods

Future Scope

Add real-time API live price streaming

Include sentiment analysis from Twitter/News

Improve forecasting using hybrid models + attention networks

Model Comparison

