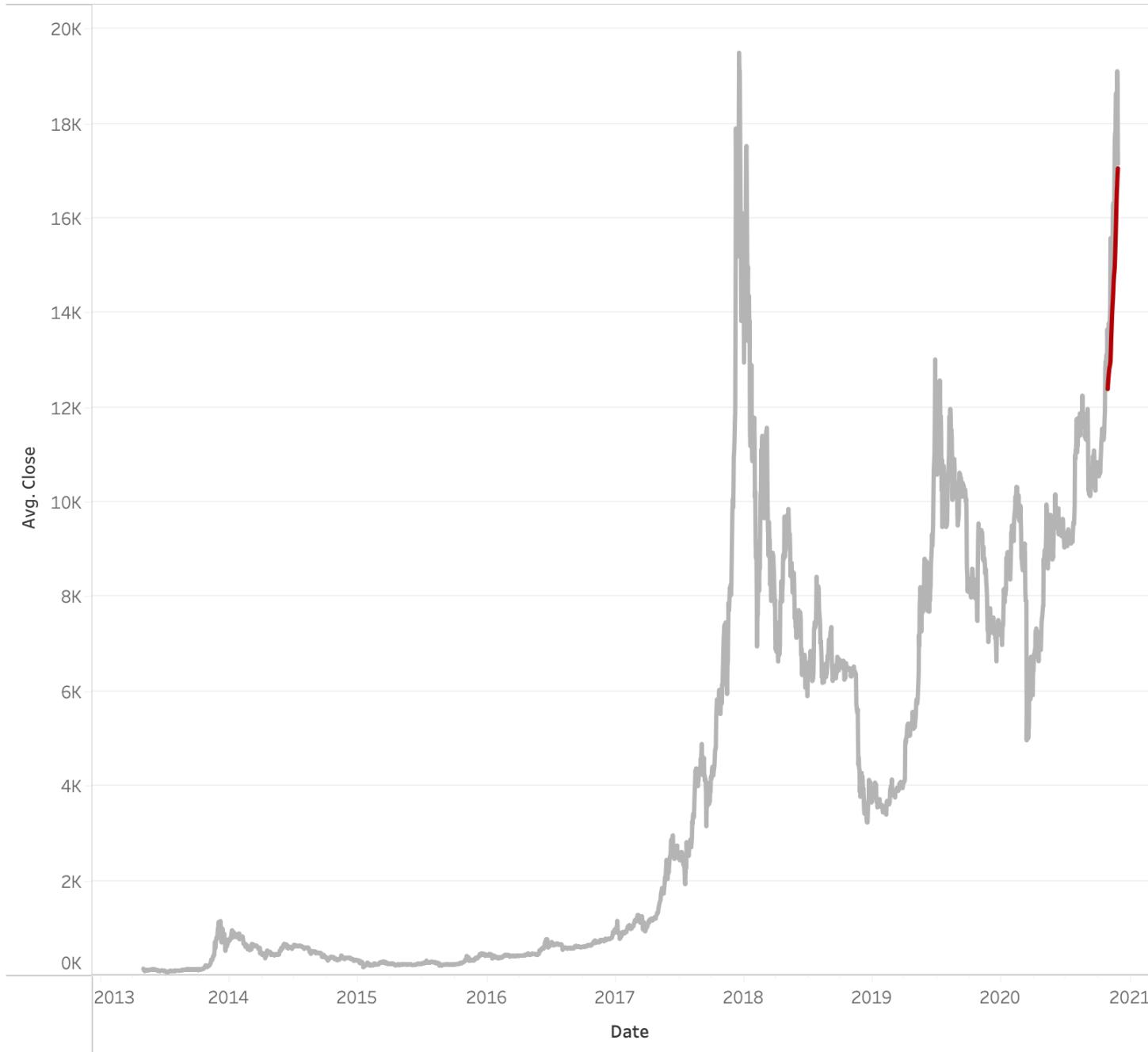
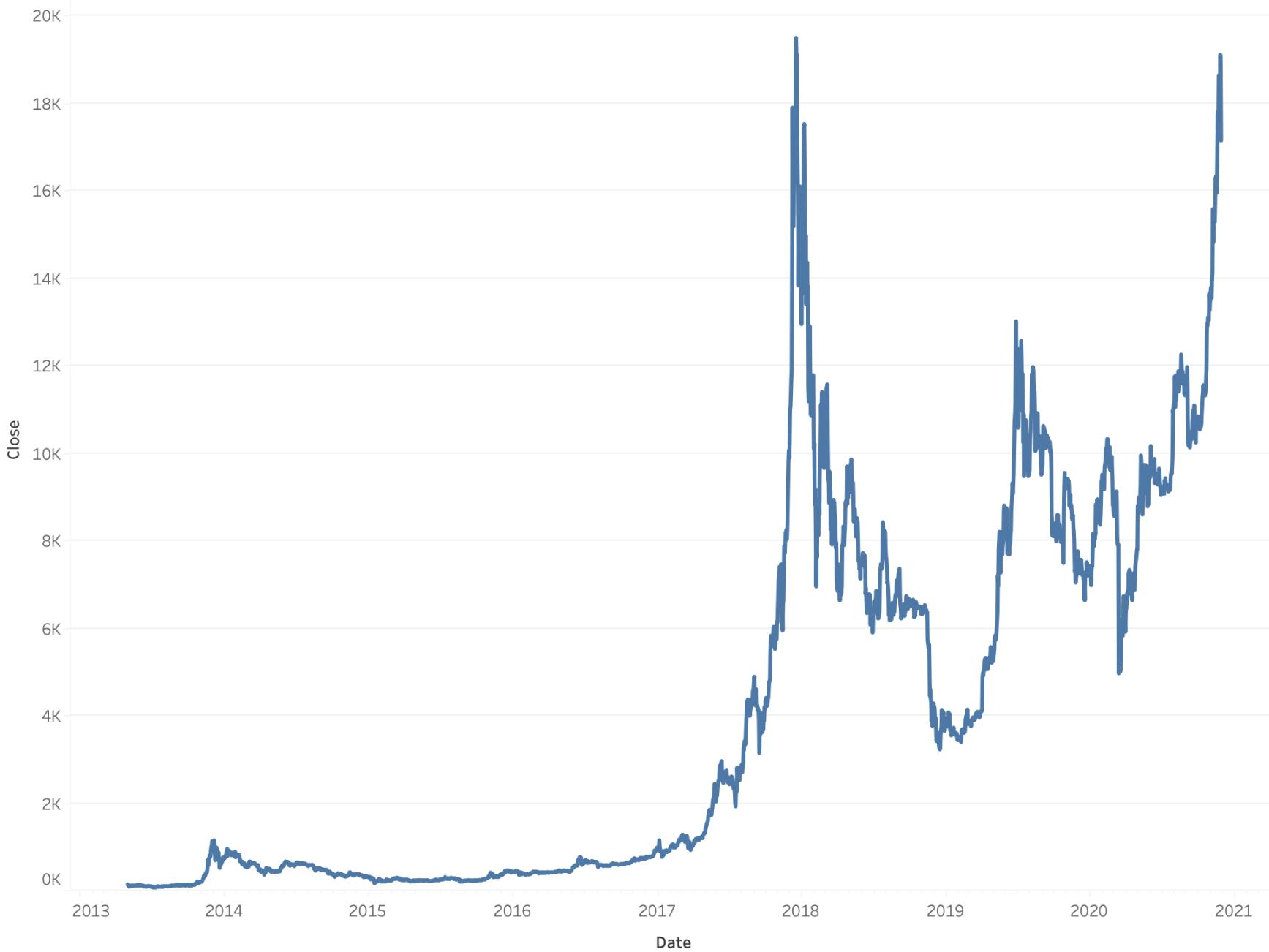


## Actual vs Best Forecast

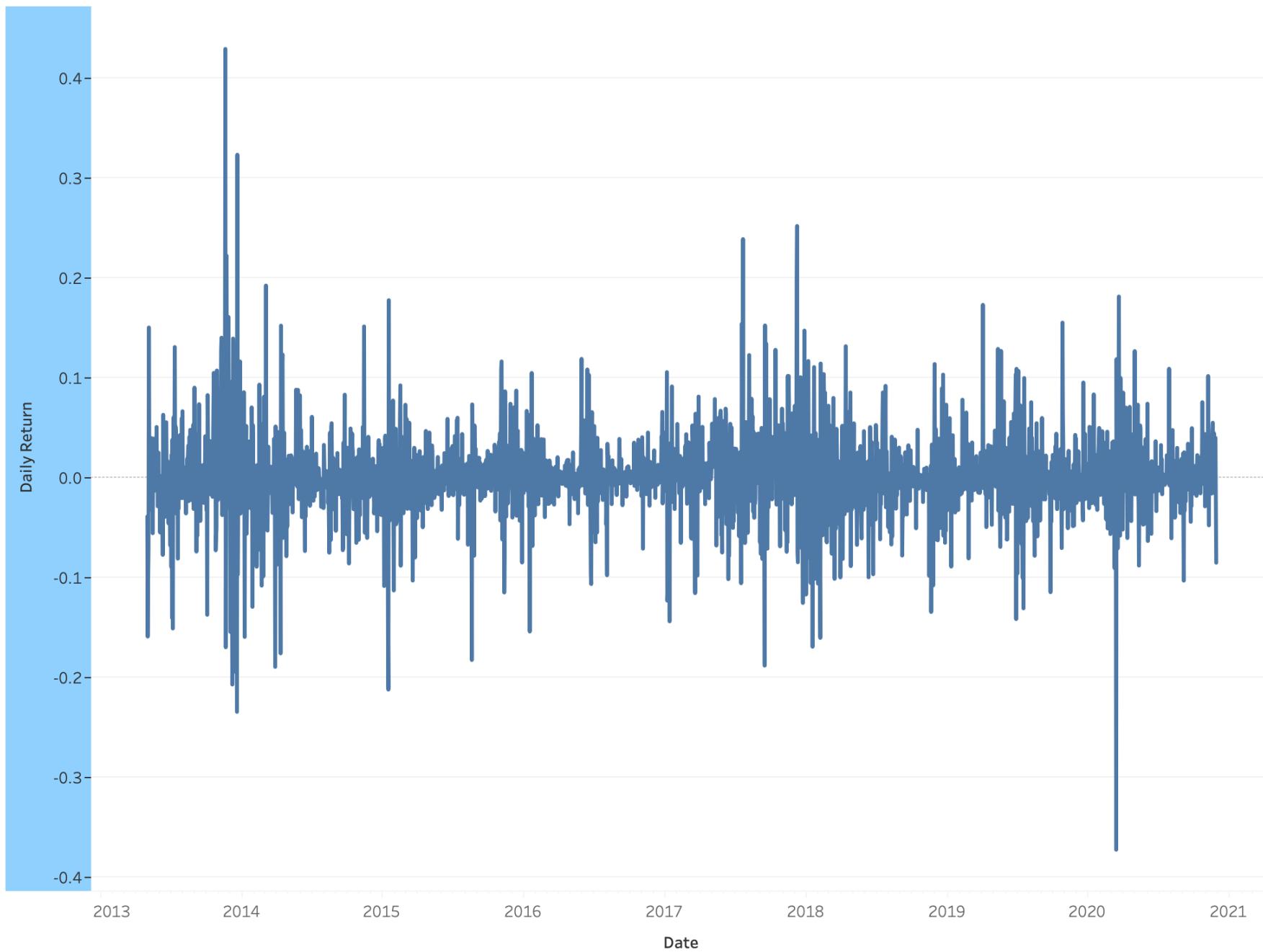
Measure Names  
Avg. Best Forecast.



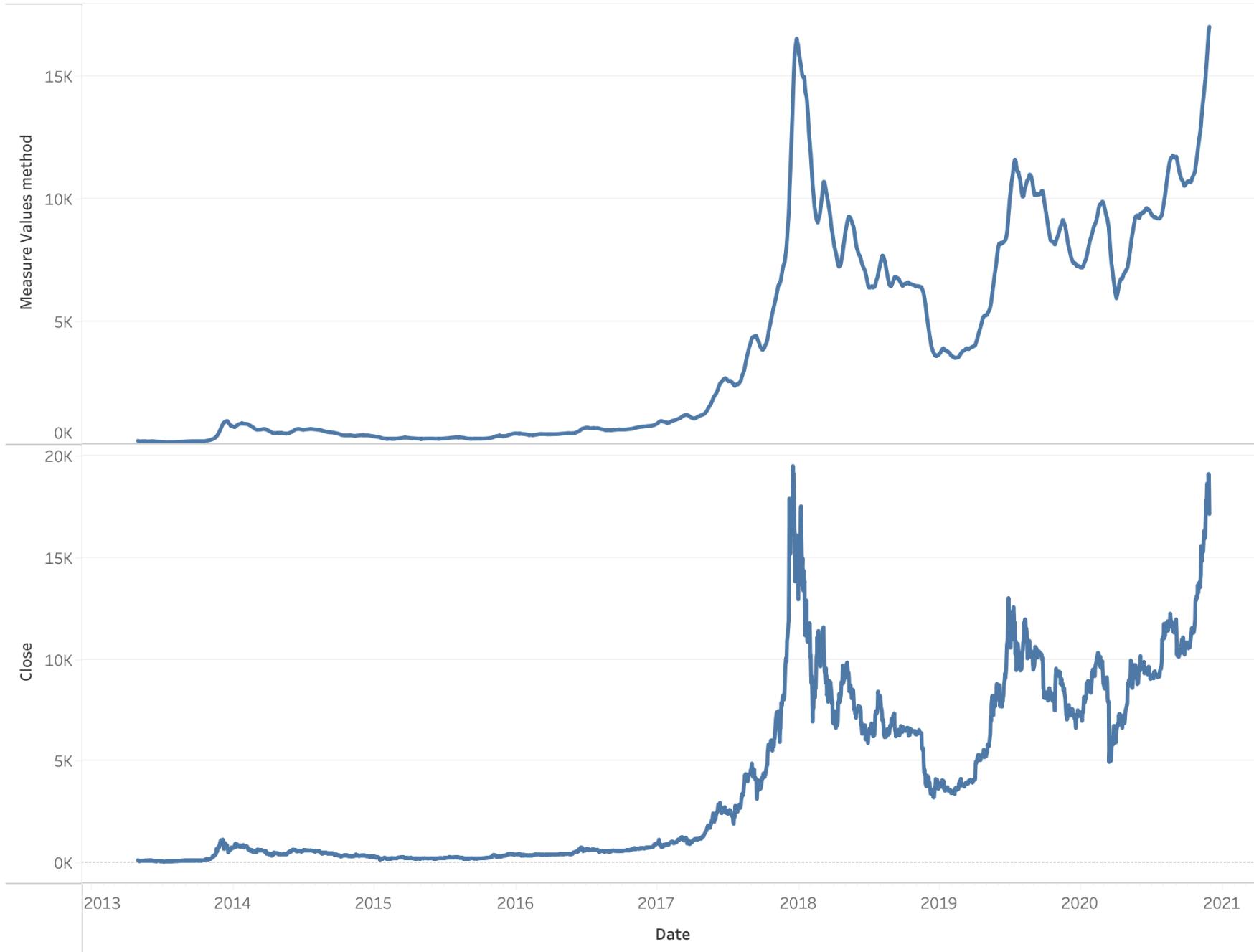
## Historical Bitcoin Price Trend



## Daily Returns (Volatility) Over Time

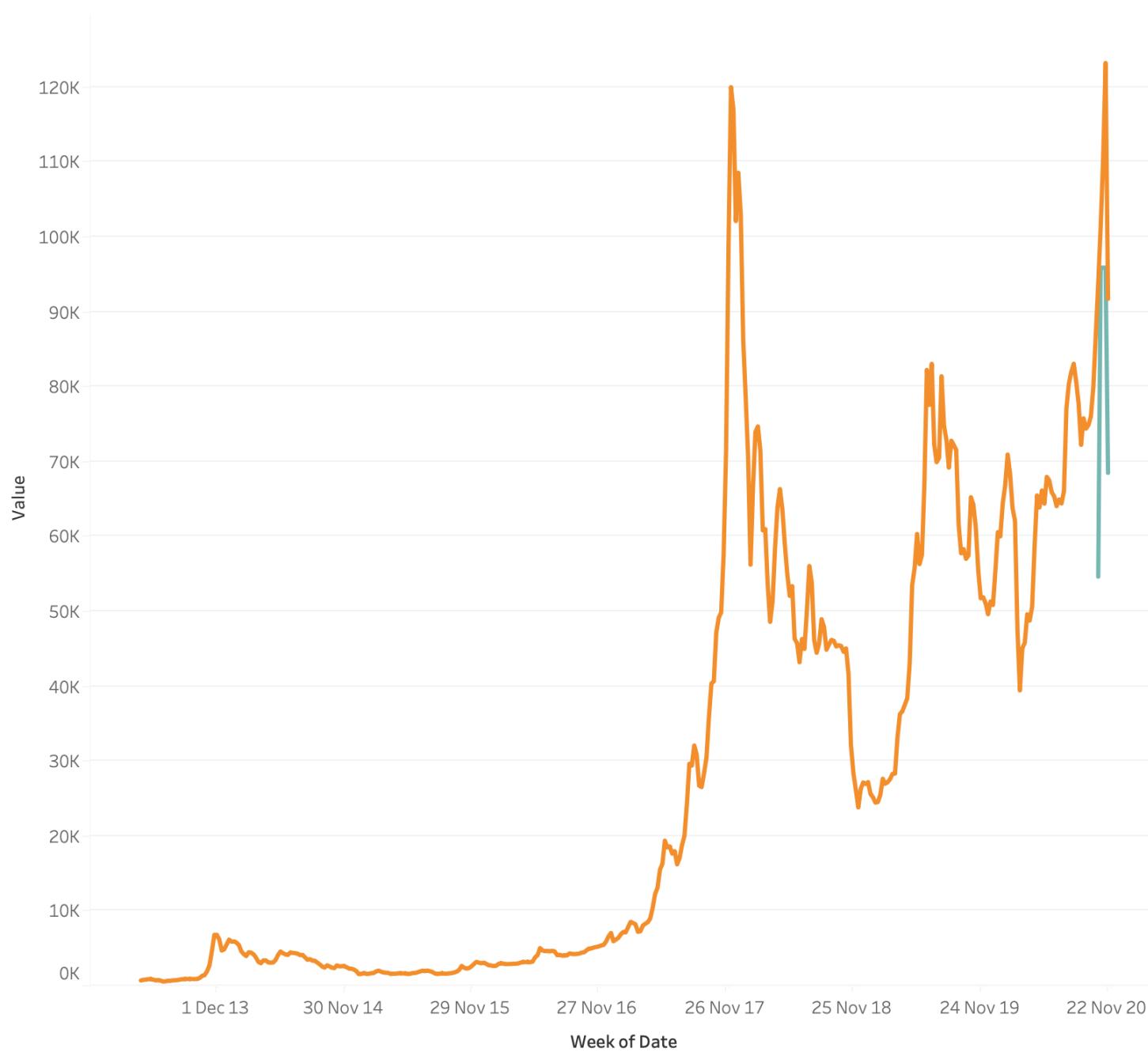


## Trend using Moving Averages



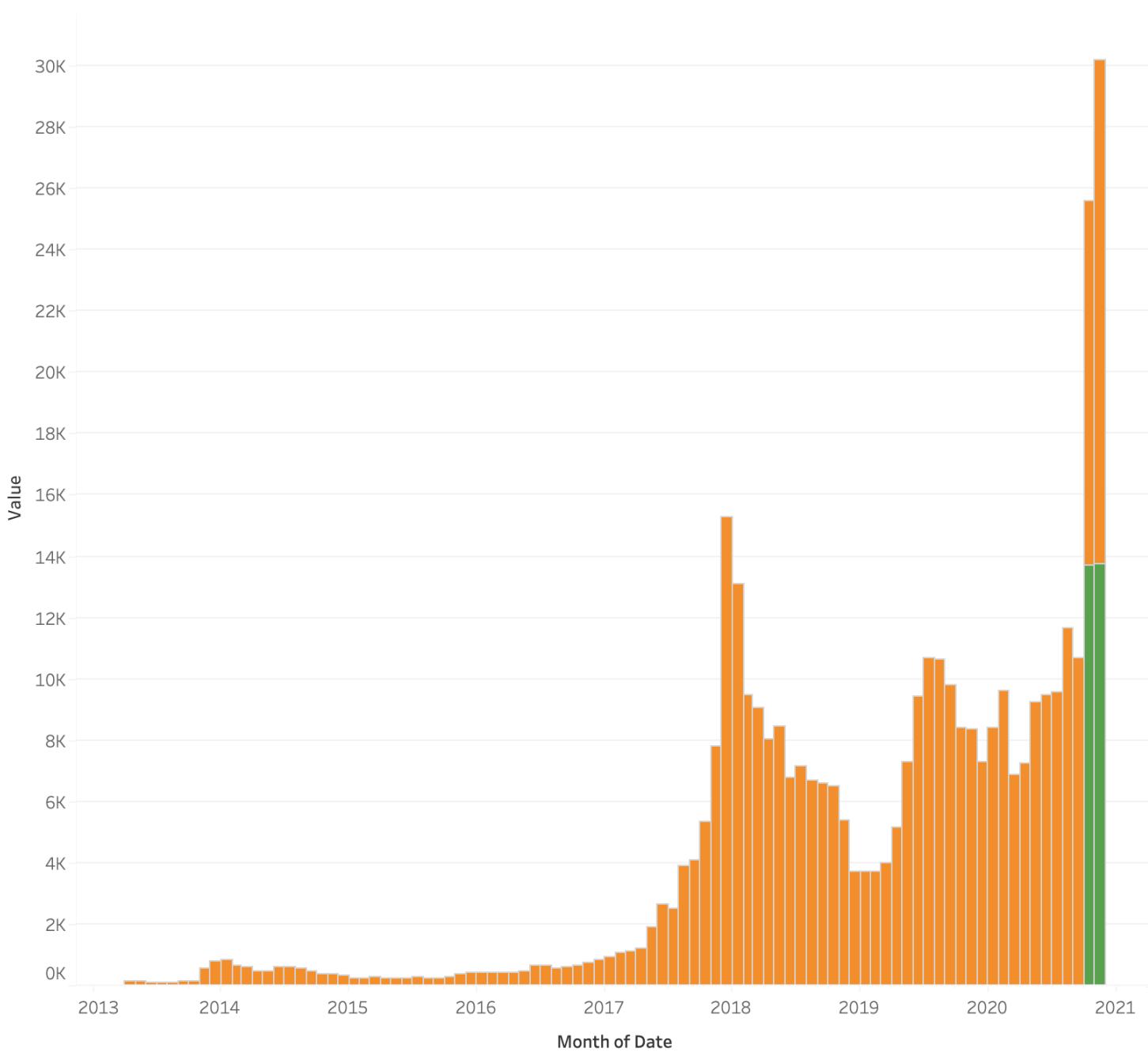
## ARIMA Forecast vs Actual

Measure Names  
Close  
ARIMA Pred



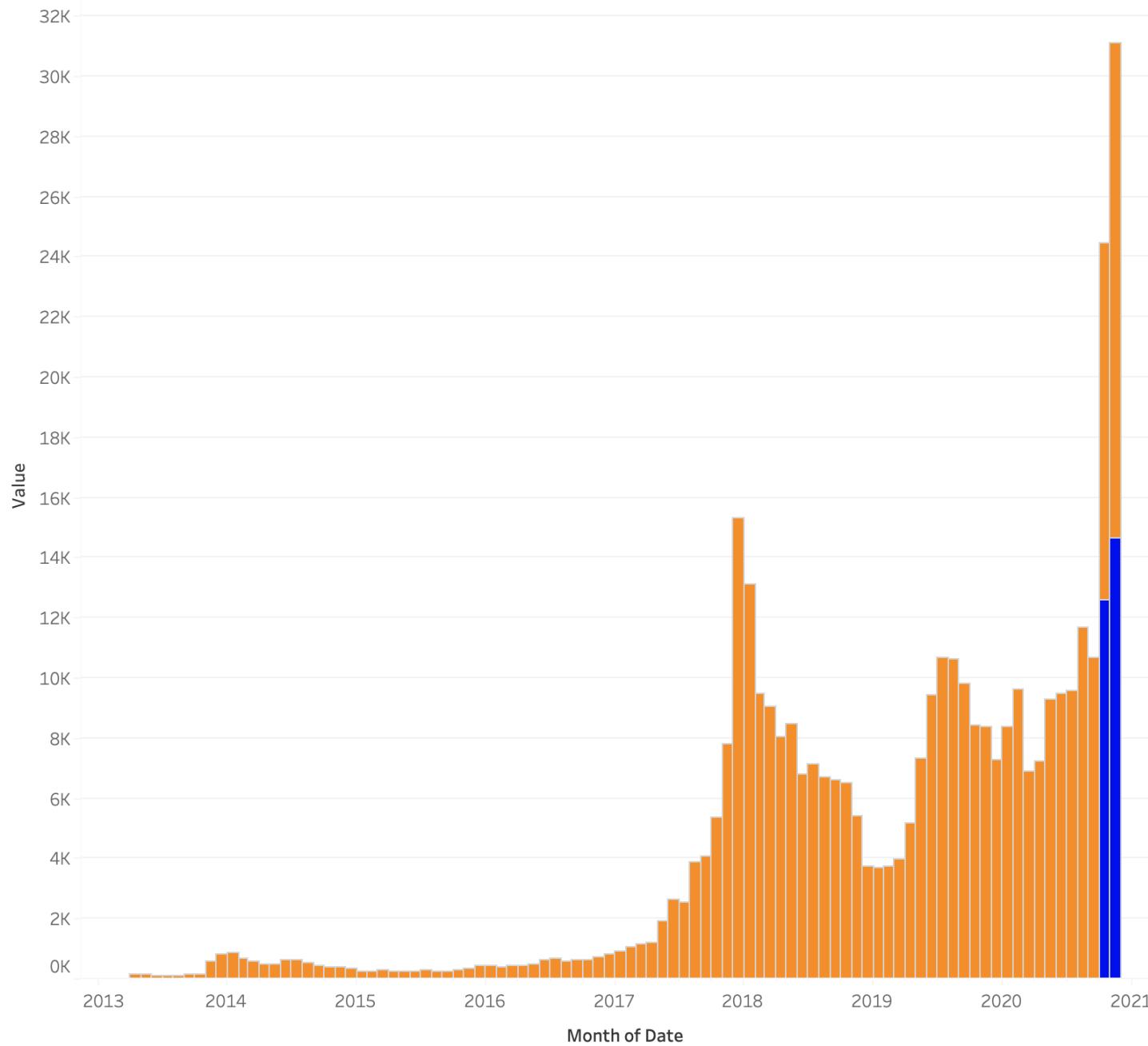
## SARIMA Forecast vs Actual

Measure Names  
Avg. Close  
Avg. SARIMA Pred

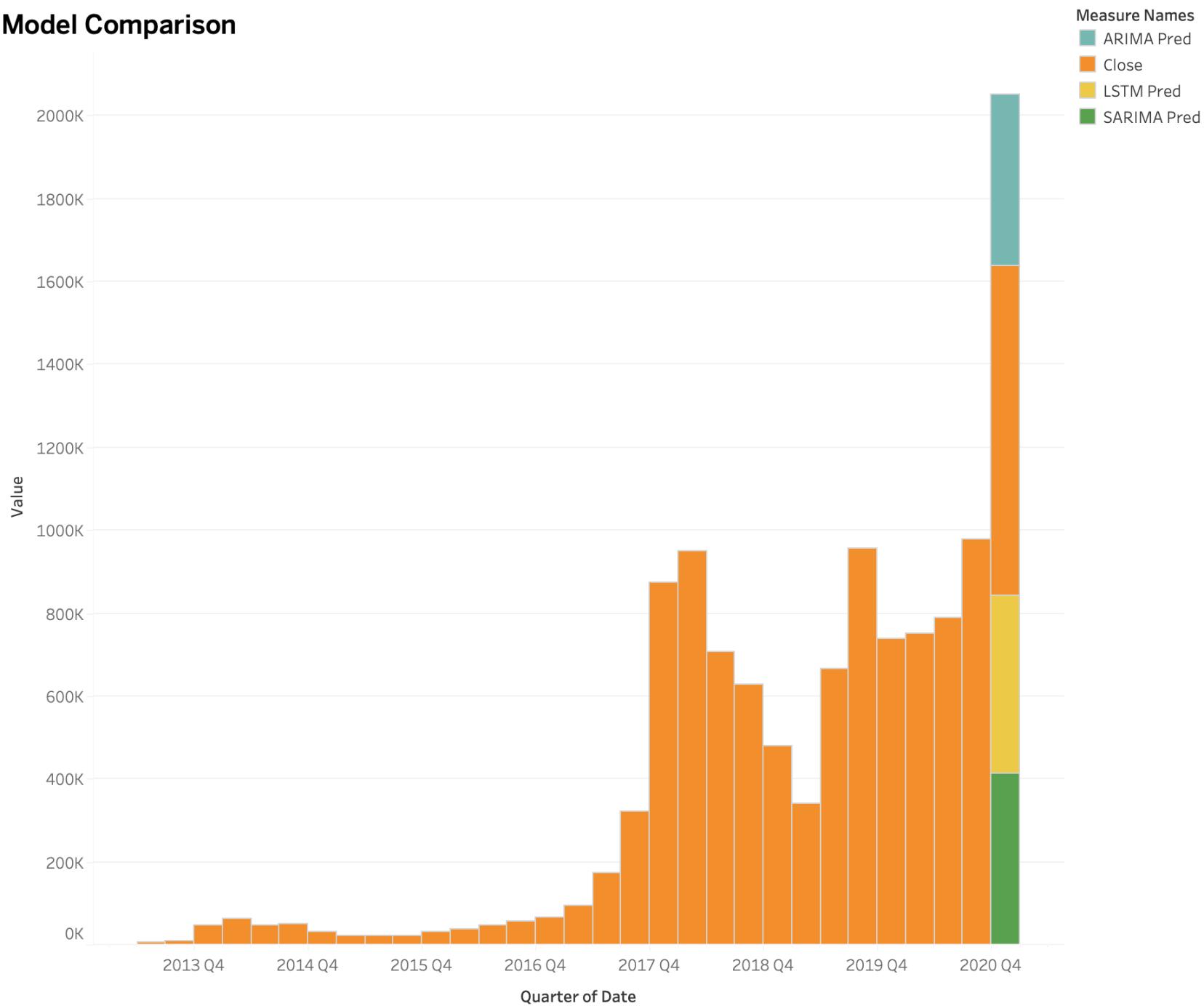


## LSTM Forecast vs Actual

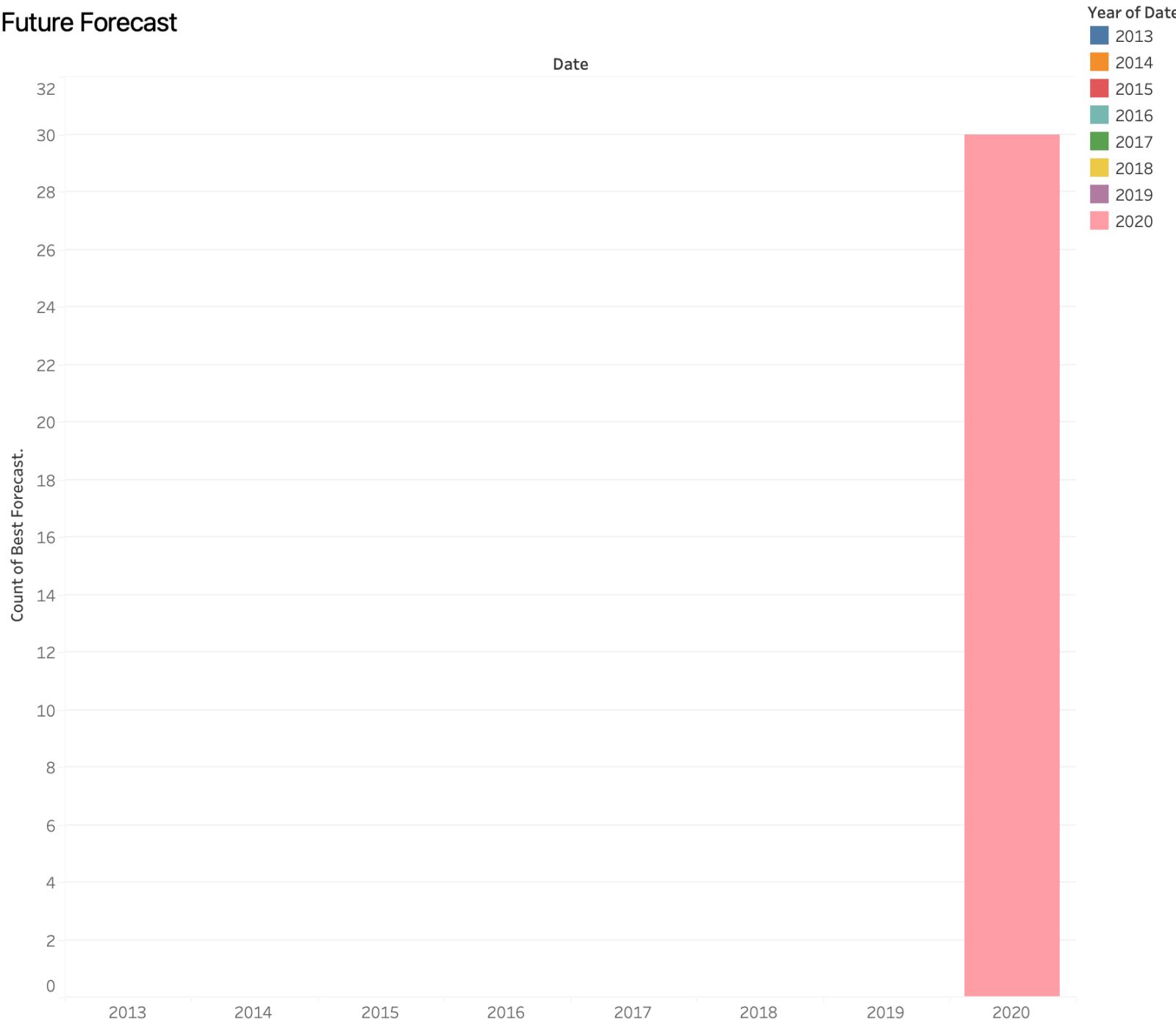
Measure Names  
Avg. Close  
Avg. LSTM Pred



## Model Comparison



## Future Forecast



# Insights & Conclusion

Measure Names  
ARIMA Pred  
Close  
LSTM Pred  
SARIMA Pred

## 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..

## 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

