

Data Science Lab 6

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FORECASTING MODELS

Traffic Time Series

Exponential Smoothing

Figure 1: Exponential Smoothing R2 and MAPE study for Traffic Time Series

Figure 2: Exponential Smoothing R2 and MAPE evaluation results for Traffic Time Series

Figure 3: Exponential Smoothing R2 and MAPE forecasting for Traffic Time Series

Multi-layer Perceptron

Figure 4: MLP R2 and MAPE study for Traffic Time Series

Figure 5: MLP R2 and MAPE evaluation results for Traffic Time Series

Figure 6: MLP R2 and MAPE forecasting for Traffic Time Series

ARIMA

Figure 7: ARIMA diagnostics for Traffic Time Series

Figure 8: ARIMA R2 and MAPE study for Traffic Time Series

Figure 9: ARIMA R2 and MAPE evaluation results for Traffic Time Series

Figure 10: ARIMA R2 and MAPE forecasting for Traffic Time Series

LSTM

Figure 11: LSTM R2 and MAPE study for Traffic Time Series

Figure 12: LSTM R2 and MAPE evaluation results for Traffic Time Series

Figure 13: LSTM R2 and MAPE forecasting for Traffic Time Series

Inflation Rate Time Series

Exponential Smoothing

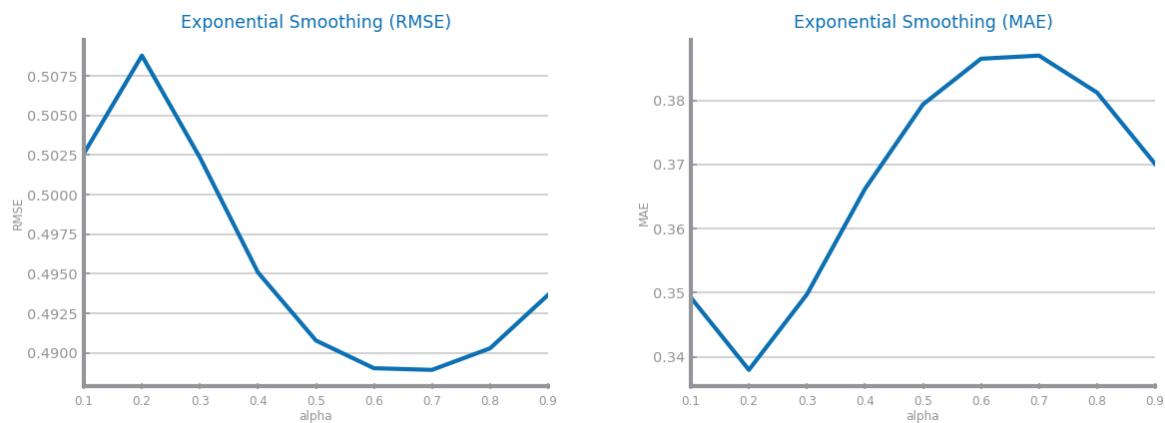


Figure 14: Exponential Smoothing RMSE and MAE study for Inflation Rate Time Series

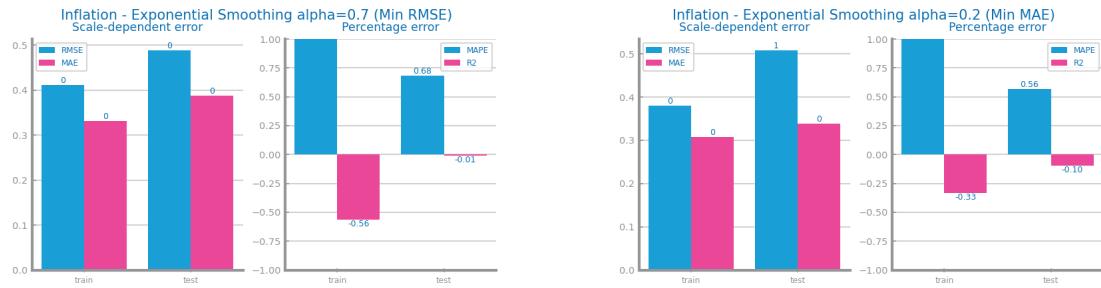


Figure 15: Exponential Smoothing RMSE and MAE evaluation results for Inflation Rate Time Series

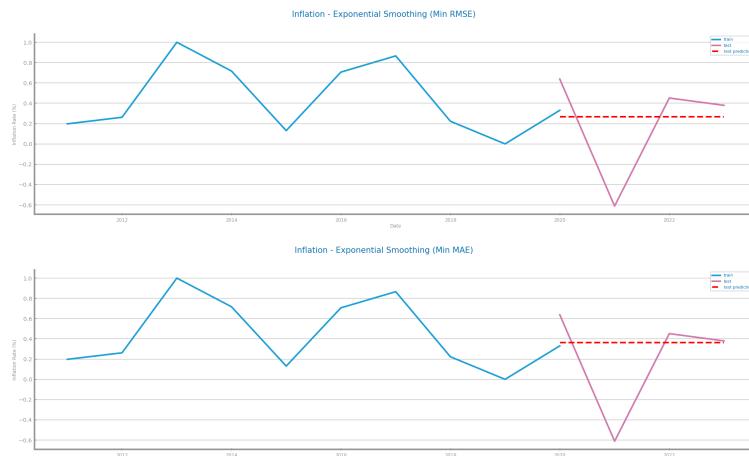


Figure 16: Exponential Smoothing RMSE and MAE forecasting for Inflation Rate Time Series

Multi-layer Perceptron

Figure 17: MLP RMSE and MAE study for Inflation Rate Time Series

Figure 18: MLP RMSE and MAE evaluation results for Inflation Rate Time Series

Figure 19: MLP RMSE and MAE forecasting for Inflation Rate Time Series

ARIMA

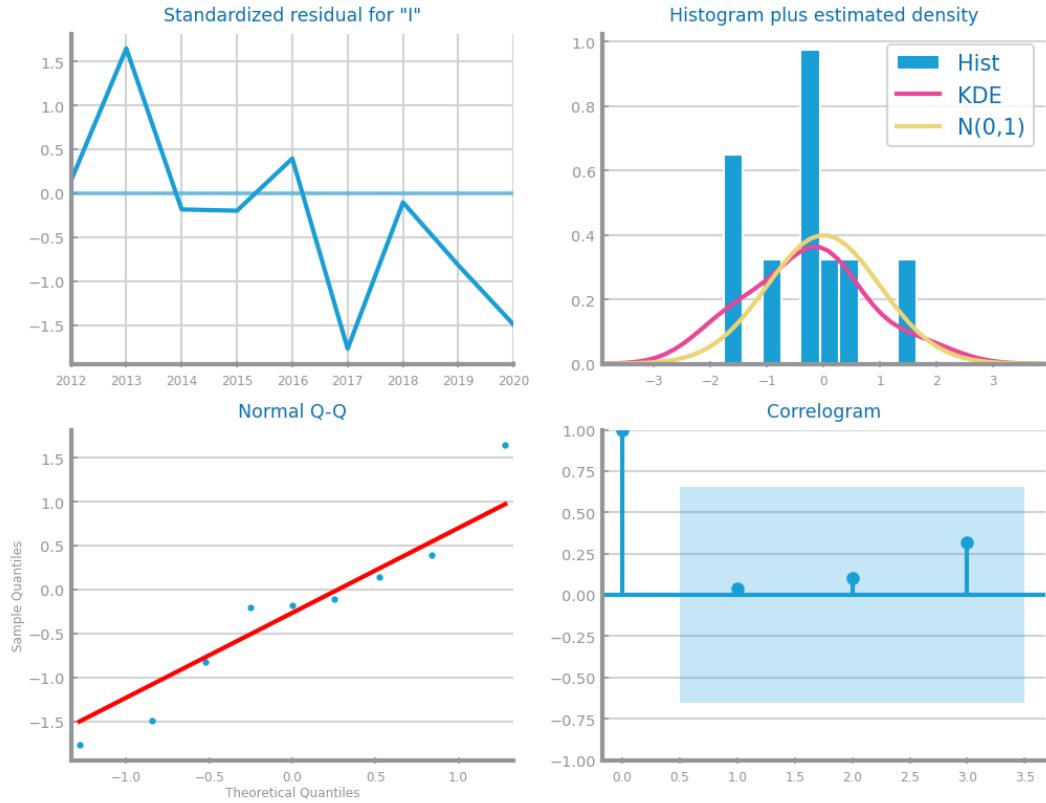


Figure 20: ARIMA diagnostics for Inflation Rate Time Series

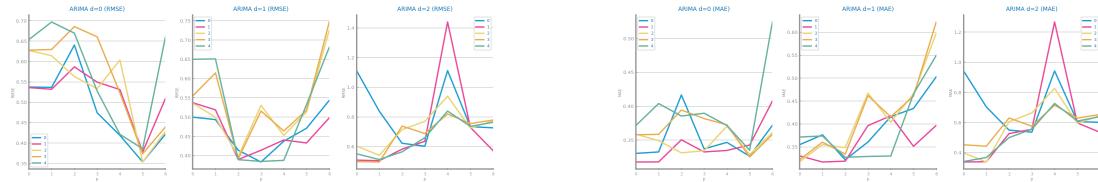


Figure 21: ARIMA RMSE and MAE study for Inflation Rate Time Series



Figure 22: ARIMA RMSE and MAE evaluation results for Inflation Rate Time Series

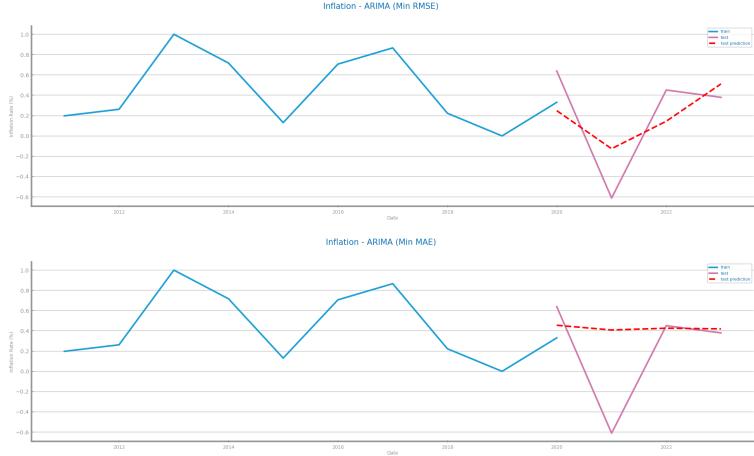


Figure 23: ARIMA RMSE and MAE forecasting for Inflation Rate Time Series

LSTM

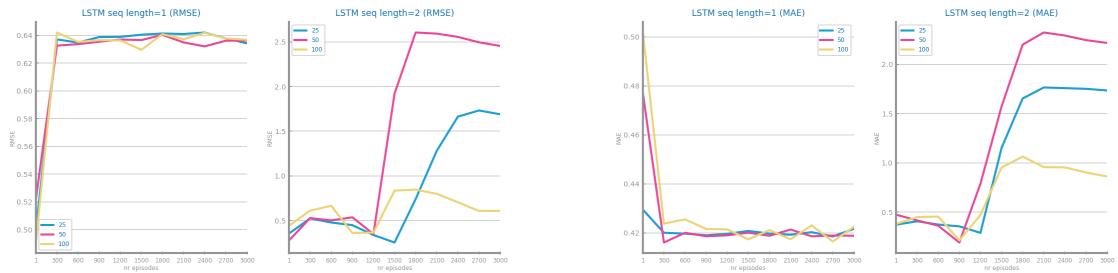


Figure 24: LSTM RMSE and MAE study for Inflation Rate Time Series

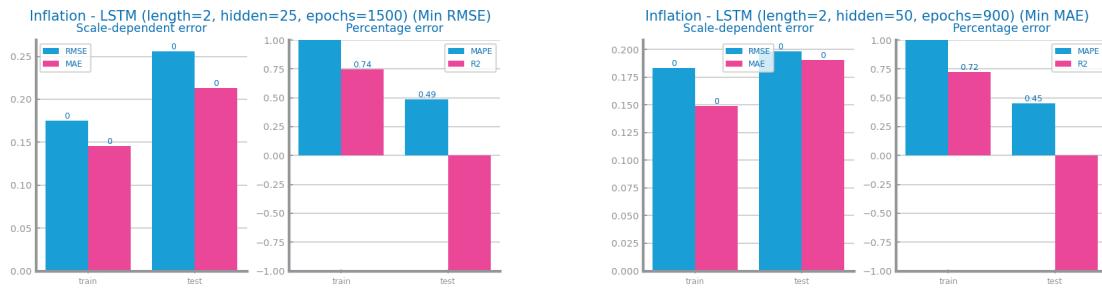


Figure 25: LSTM RMSE and MAE evaluation results for Inflation Rate Time Series

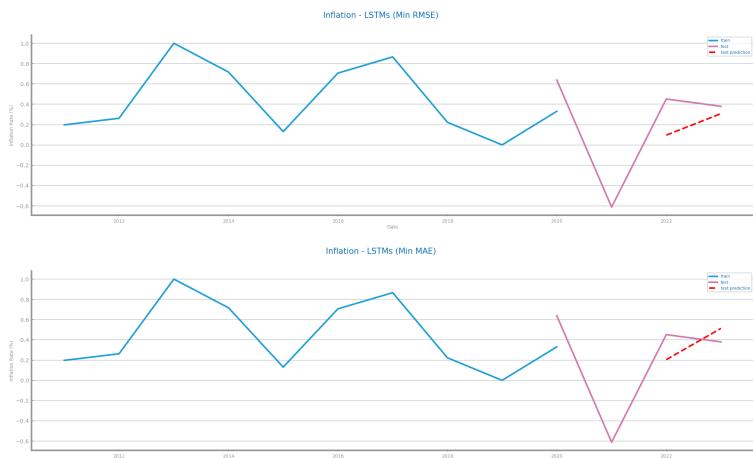


Figure 26: LSTM RMSE and MAE forecasting for Inflation Rate Time Series