



Truck Sales Analysis and Forecasting

Time series Exam



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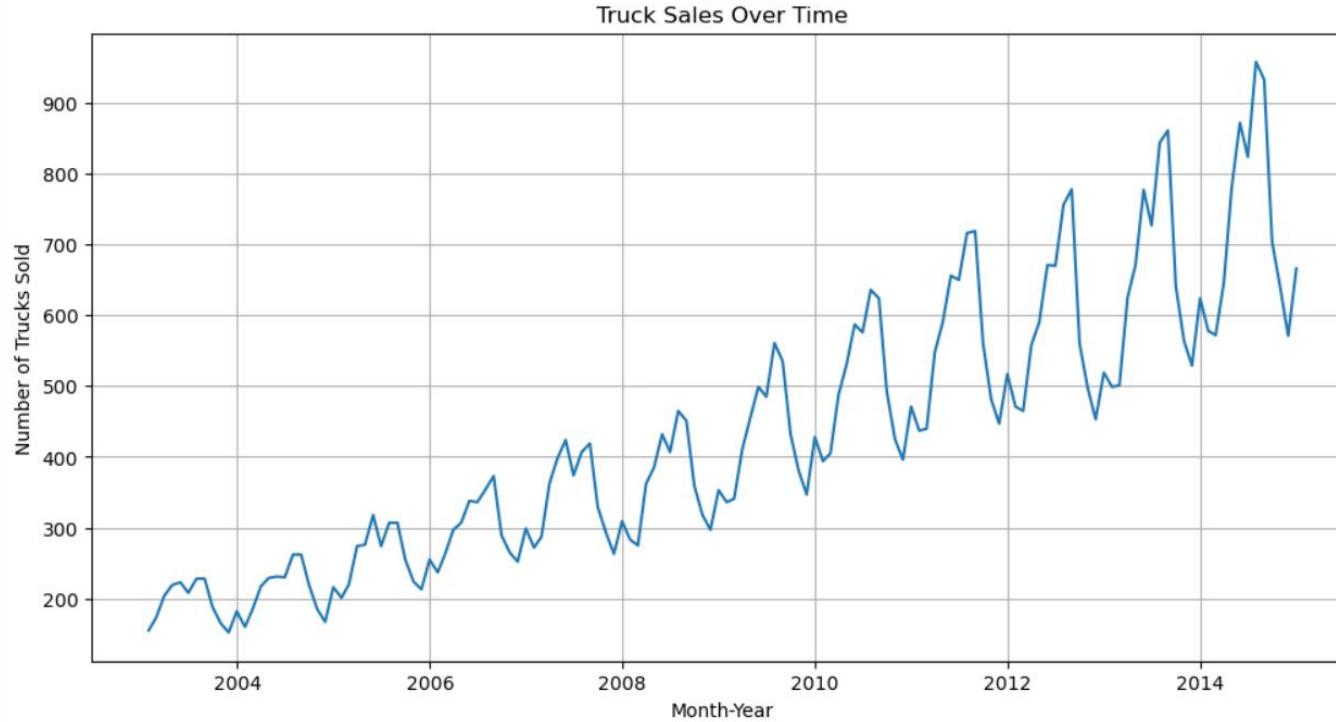
Predictive Model
and Validation

04

Forecast vs.
Reality



01 – Preliminary Analysis / Time Series





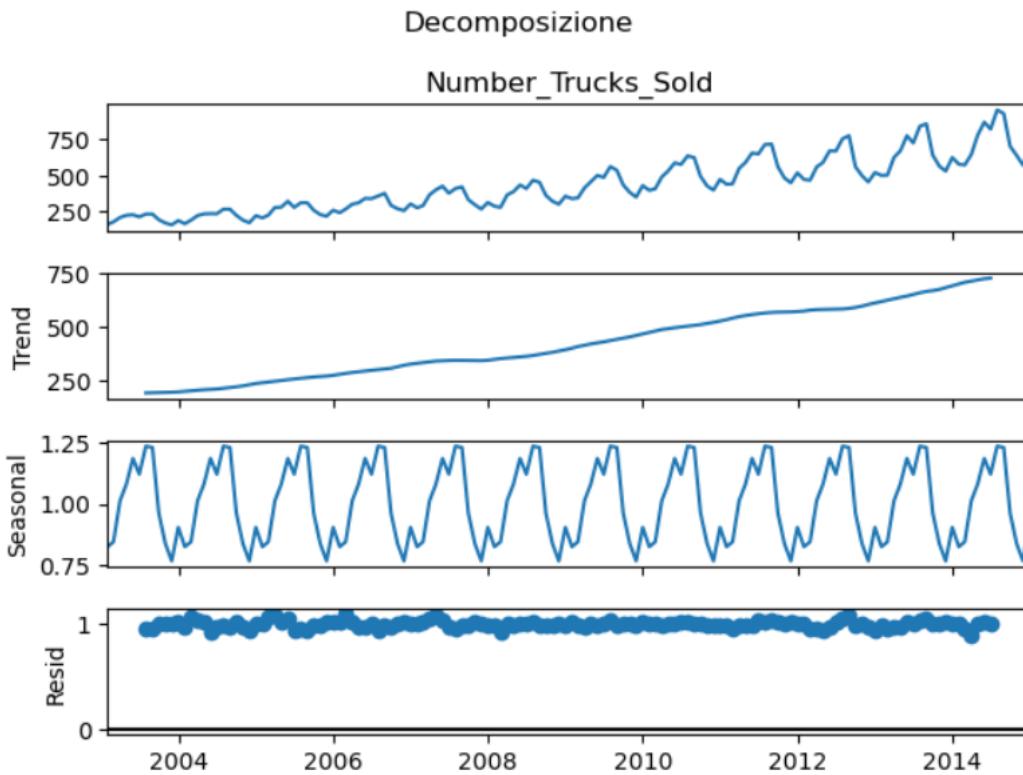
02

Series Decomposition





02 – Series Decomposition



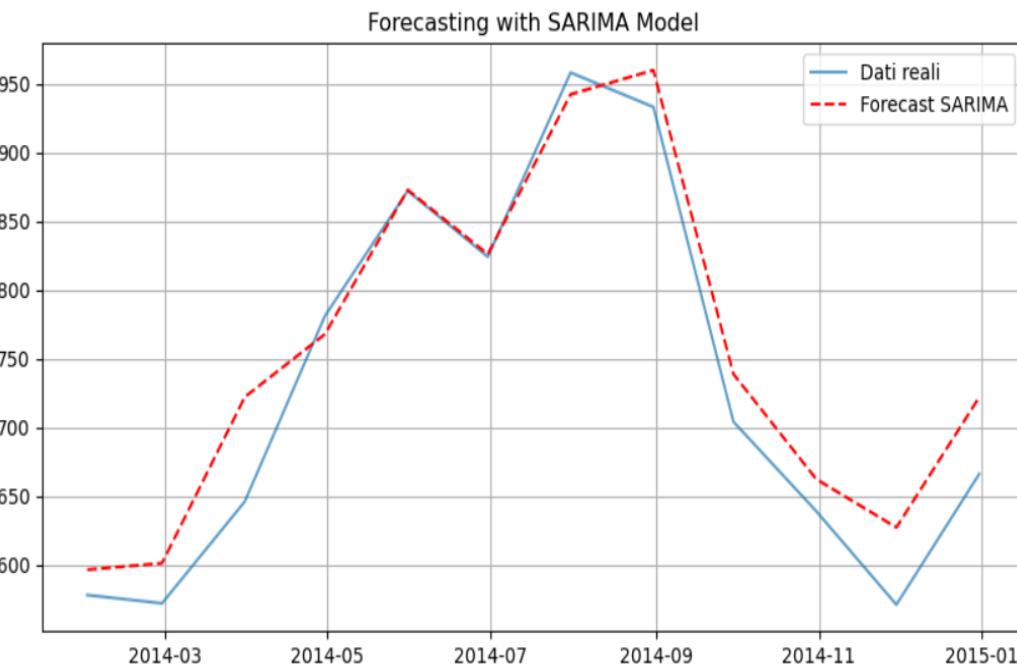


03

Predictive Model and Validation



03 – SARIMA



Method Used: SARIMA

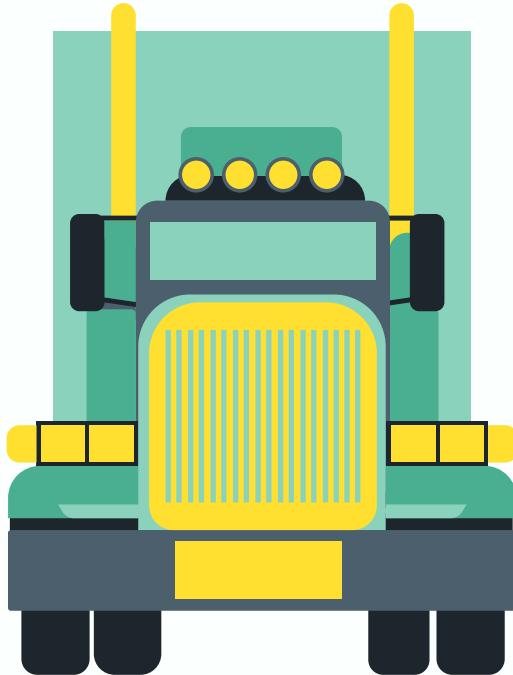
MAE: 29.338

RMSE: 36.667

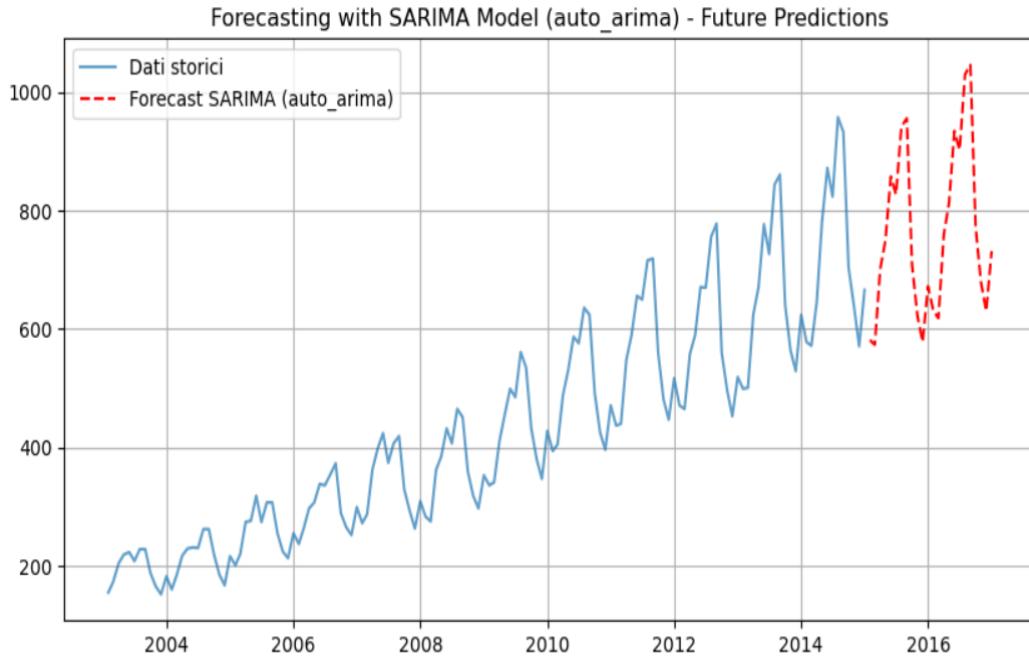
To honestly test its accuracy, we trained the model on 80% of the data (the training set) and used the remaining 20% (the test set) as a benchmark.

04

Series Forecast



04 – Series Forecast



MAE Auto ARIMA: 15.226
RMSE Auto ARIMA: 21.253

Thanks