Time Series Forecasting using SARIMA Model

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Abstract

Sales forecasting is a most important application in industries and has been one of the most scientifically and technologically challenging problems around the world. Accurate prediction of Sales parameters is a difficult task due to its dynamic nature. Generally prediction is done on Time series data. A time series is a sequence of observed values of some entity that is measured at different points in time.

In this project I will be using SARIMA (Seasonal Autoregressive Integrated Moving Average) Model to predict the future sales of a Super Market. SARIMA model is an extension to ARIMA model and is used on the time series data which shows seasonality in its trend.

In addition, I will be applying different neural networs such as FNN, RNN, TLNN and a HYBRID SARIMA-LSTM model and make comparisons of their performance.

Datasets used

`https://www.kaggle.com/rohitsahoo/sales-forecasting`

References

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