

# Time Series Case Study

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## Dataset

The data consists of Sales of a FMCG product. The company would like to forecast the sales so that they could plan for their inventory. The data provided is from January 2012 to December 2015.

## Problem

Analyse the time series data and answer all the below questions,

1. Convert the data to time series data
2. Plot the series and identify all the components in it. (Hint – Decompose the series)
3. Based on components identified use the appropriate technique for building time series models
4. Check if the model is able to capture the series
5. Use the model to forecast for the next 1 year
6. Perform diagnostics