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The given data DeliveryRate.csv , represents the delivery rate of the product for each month.

Data consists of 3 years of data at month level from January 2013 to December 2015.

Build a monthly time series models to forecast the delivery rates at month level.

Steps:

1. Read the data DeliveryRate.csv into R or Python

2. Create a time series object by choosing the appropriate frequency value and plot it.

3. Decompose the time series and plot the components, identify the trend, seasonality and randomness in the data.

4. Study ACF, PACF plots to find auto and partial auto correlations manually and check if data has predominant trend and seasonal components.

5. Build the moving average models I.e. SMA for smoothing the data.

6. Calculate the error metrics for the moving average models.

8. Applying ARIMA models on the data, by identifying the appropriate p,d,q values manually and by running auto.arima or auto\_arima.