Store Sales TS Forecasting

Steps –

* Imports
* Datasets
* Convert ‘object’ datatype to ‘datetime’ as per its col data type. So, match the datatype
* One-by-One Check relation of target variable with each of cols in dataset
* Linear Interpolation - Linear interpolation is a method of calculating intermediate

data between known values by conceptually drawing a straight line between two adjacent known values. An interpolated value is any point along that line. You use linear interpolation to, for example, draw graphs or animate between keyframes.

Using, linear Interpolation is best imputation method for Time Series data.

* After checking every dataset and checking is it important of us to keep It or not, forwarding with target variable.
* After visualization and filtering rows and cols, we do Time Related Features

These features include breaking down the given column “date” into many other like- Basic Date Features- month, day\_of\_month, day\_of\_year,

week\_of\_month

Week of Year Features- week\_of\_year

Day Of Week Features- day\_of\_week

Year Related Features- year, is\_wknd, quarter

Month-related features- is\_month\_start, is\_month\_end

Quarter-related features- is\_quarter\_start, is\_quarter\_end

Year-related features- is\_year\_start, is\_year\_end

* In time series analysis, ACF and PACF plots are two of the most important tools for identifying the underlying structure of a time series. The ACF plot shows the correlation of a time series with itself at different lags, while the PACF plot shows the correlation of a time series with itself at different lags, after removing the effects of the previous lags.