

# Findings

The objective of forecasting is to prepare the suppliers and warehouse about the incoming orders and stocks respectively. For this we will be building forecasting model.

Dataset consists of :

- Sales Qty
- Inventory
- Sell price of the SKU.

I first loaded the dataset then draw the plot taking closing price and months as two variables. Then, checked for weekly sales. Later I used “acf” & “pacf” functions to compute an estimate of the autocorrelation function of a univariate time series and an estimate of the partial autocorrelation function of a univariate time series respectively.

Then I applied the arima model taking frequency as 20 and then plot it.

Also found MAPE by using  $(df\$`Actual Price` - df\$`Forecasted Price`) / (df\$`Actual Price`)$ .

