**FORECASTING**

Forecasting is the process of making predictions of the future based on past and present data and most commonly by analysis of trends.

 Forecasting methods:-

1. If there are no data available, or if the data available are not relevant to the forecasts, then **qualitative forecasting** methods must be used.
2. **Quantitative forecasting** can be applied when two conditions are satisfied:
3. numerical information about the past is available
4. it is reasonable to assume that some aspects of the past patterns will continue into the future.

Forecasting model building methods:-

1. Linear model
2. Exponential model
3. Quadratic model
4. Additive seasonality
5. Additive seasonality with quadratic trend
6. Multiplicative Seasonality

**Data Used :**

1. Airlines dataset :- Forecast the data and find the RMSE value for each model.Find the best model for forecasting.
2. Coca cola sales raw dataset :- :- Forecast the data and find the RMSE value for each model.Find the best model for forecasting.
3. Plastic sales dataset :- Forecast the data and find the RMSE value for each model.Find the best model for forecasting.

**Programming:-** Python

**The Codes regarding Forecasting with Three different business problems**Airlines dataset**,** Coca cola sales raw dataset, Plastic sales dataset **are present in this Repository in detail.**