Module 5: Advanced Visual Analytics

Demo Document III

edureka!



© Brain4ce Education Solutions Pvt. Ltd.

Demo III

Given weather data of past 34 years, use the data from 2011 to 2018 and create a report on rainfall forecast for the year 2019-20.

(Use Weather Data 1984-2018.xlsx Dataset)

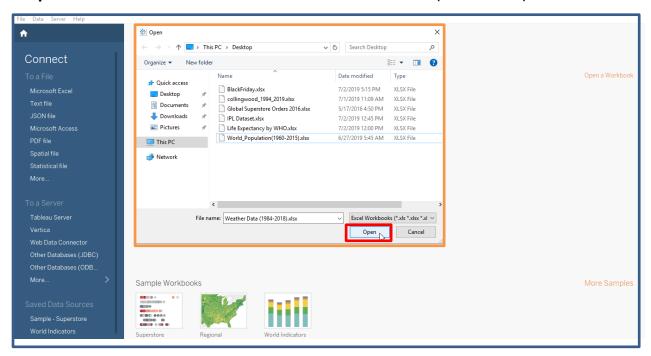
Demo III - Solution

Forecast models capture the evolving trend or seasonality of given data and extrapolate them into future.

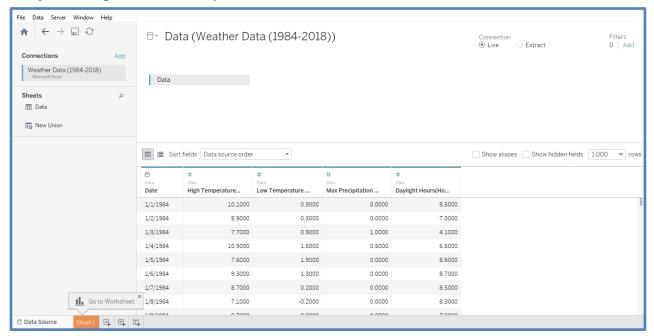
Forecast feature of Tableau desktop allows you to forecast quantitative time series data using exponential smoothing model. The exponential smoothing gives more weight to recent observations than older observations.

Let us get started with creating a rainfall forecast report:

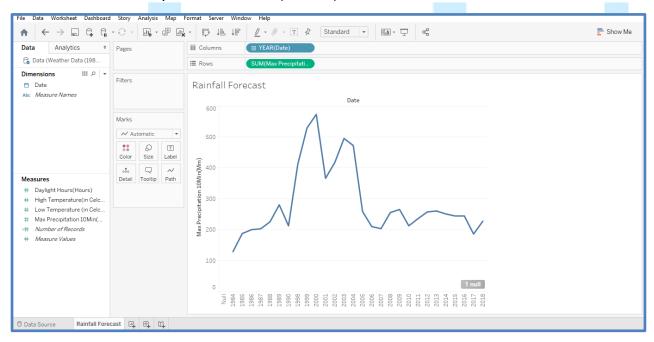
Step 1: Click on Connect → Microsoft Excel → Weather (1984-2018).xlsx



Step 2: Drag Data to flow pane.

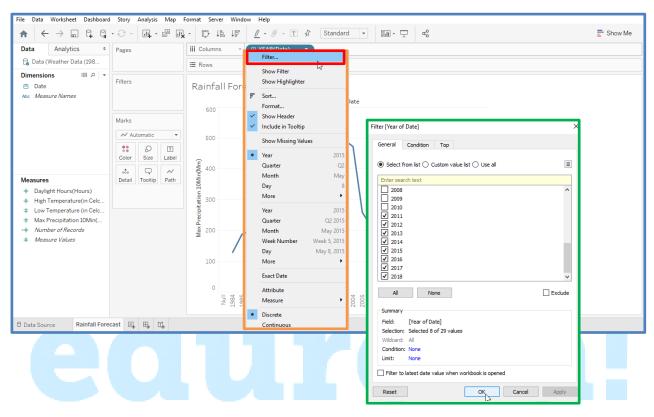


Step 3: Sheet $1 \rightarrow$ Rename to Rainfall forecast (Optional) \rightarrow Drag Date to Column shelf and Max Precipitation 10Min (in Mm) to Rows shelf

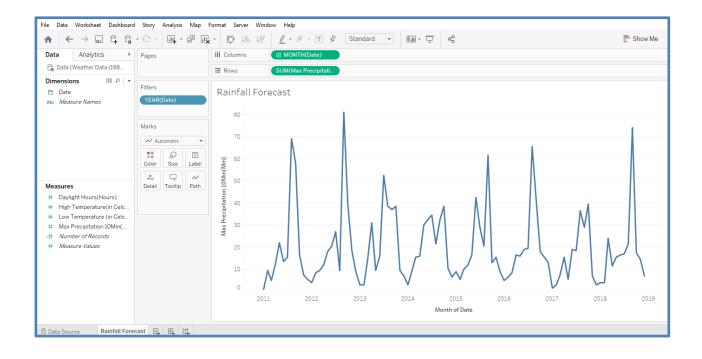


To analyze the data from 2011 to 2018:

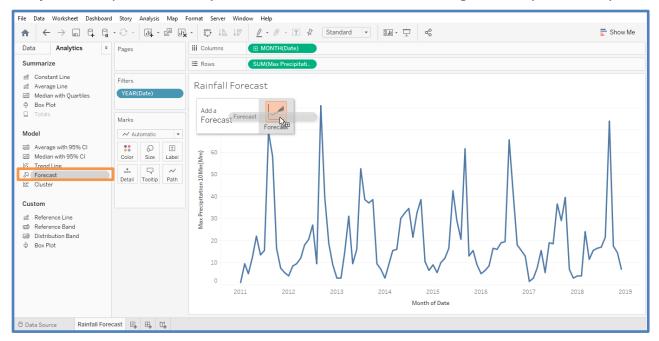
Step 4: Year \rightarrow Drop down \rightarrow Filter \rightarrow Select from list \rightarrow 2011 to 2018 \rightarrow Apply \rightarrow OK



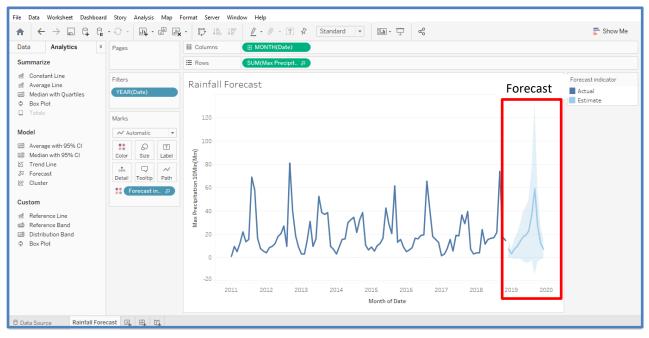
Step 5: Go to Year in Column shelf and change it to month for better visualisation.



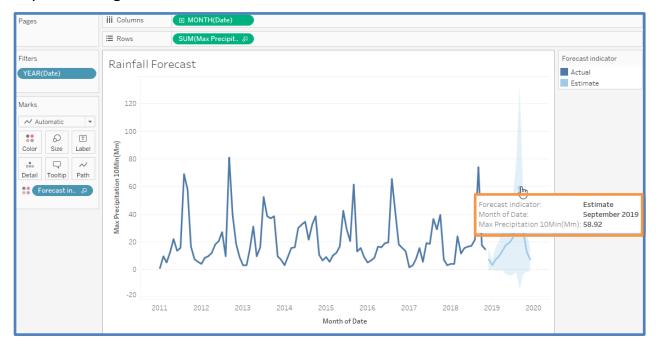
Step 6: Data pane \rightarrow Analytics \rightarrow Model \rightarrow Forecast \rightarrow Drag and drop on view pane



Forecast for year 2019-20 can be visualized



Form the visualization below, we can forecast that in September 2019 we can expect the highest rainfall.



edureka!