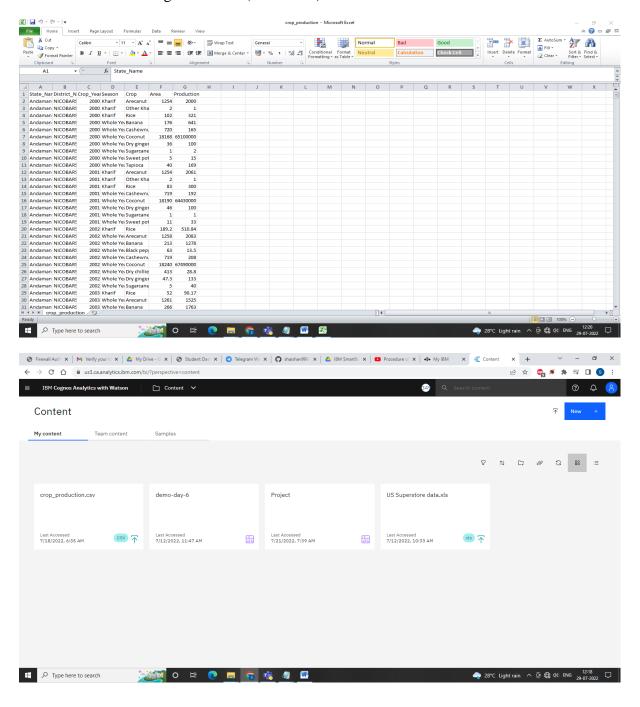
Project Title: Agriculture Data Analytics in Crop Yield Estimation using IBM Cognos

Project Document Author: Shaishav Shah

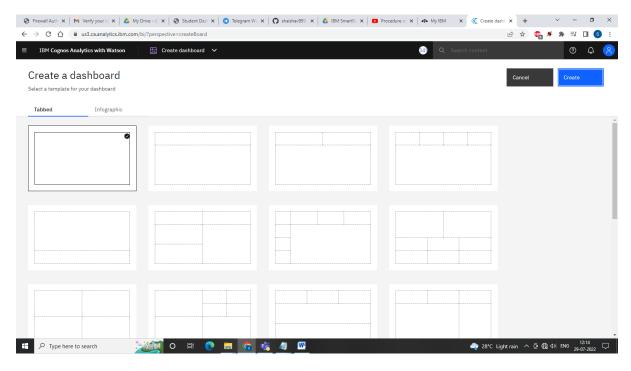
Email Id: shaishav999@gmail.com

Step-1: Understanding and then uploading the dataset crop_production.csv in IBM Congnos Analytics with Watson Account

In the given data set there are 7 columns i.e State_Name, District_Name, Crop_Year, Season, Crop, Area, Production and 2,46,901 rows. The data set provides the information of various states of india (District-wise) producing various crops with the amount of production and area of cultivation according to seasons (Year-wise).



Step-2: Creating Dashboard in IBM Congnos Analytics with Watson and selcting datasource as crop_production.csv

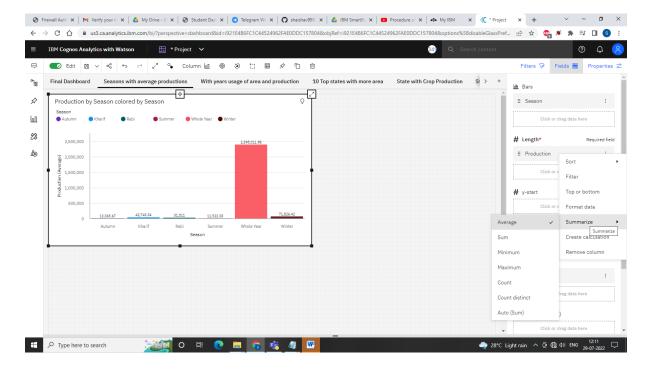


Step-3: Season with Average Productions chart

We create a dashboard and rename it as Season with Average Productions.

We create bar chart and select seasons (from dataset) as bars and Production as Length.

We know summarize the Production as average and show the graph as shown in below screenshot.



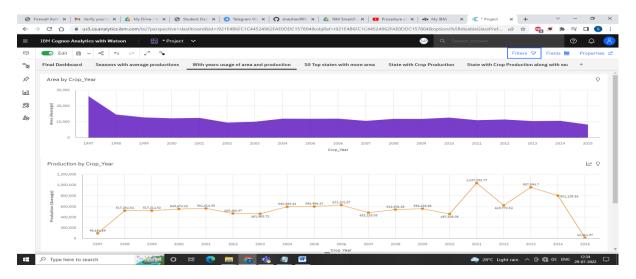
Step-4: With Years Usage of Area and Production chart

We create a dashboard and rename it as With Years Usage of Area and Production chart.

We create area chart and select crop year (from dataset) as x-axis and area as Y-axis.

We create line chart and select crop year (from dataset) as x-axis and Production as Y-axis.

We know summarize in both charts area and Production as average and show the graph as shown in below screenshot.



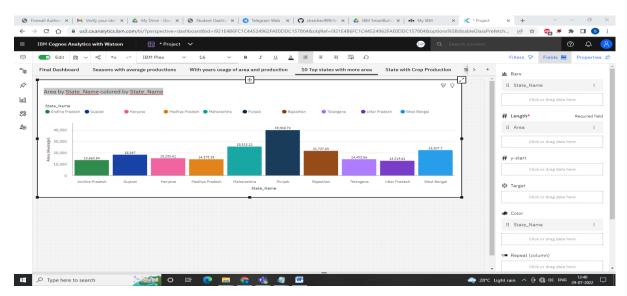
Step-5: Top 10 States with Most Area chart

We create a dashboard and rename it as Top 10 States with Most Area chart.

We create bar chart and select State name (from dataset) as x-axis and area as Y-axis.

We know summarize in charts area as average.

In the State_Name we select top or bottom option and enter 10 to select Top 10 states and show the graph as shown in below screenshot.

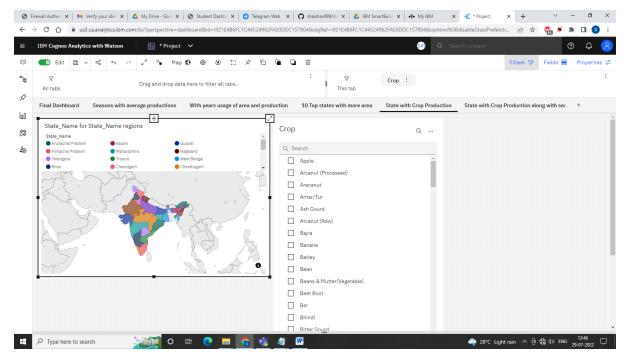


Step-6: State with Crop Production

We create a dashboard and rename it as State with Crop Production.

We select Map as a chart and select State name (from dataset) as location.

In filter we choose crops as option and show the graph as shown in below screenshot.



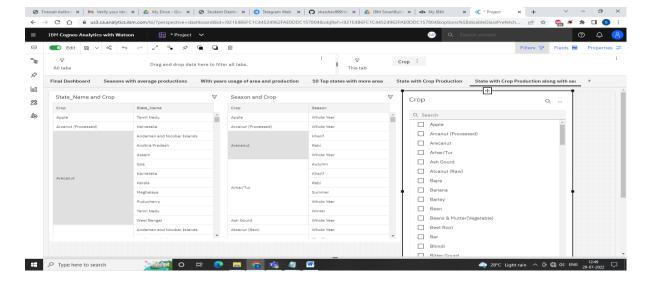
Step 7: States with the Crop Production Along With Season (Text Table)

We create a dashboard and rename it as States with the Crop Production Along With Season.

We select Table and choose crop and State name as columns.

We select another Table and choose crop and season as columns.

We than use crops as filter and show the tables as shown in below screenshot.



Step-8: Final Dashboard

We create final dashboard having all the graphs and tables we have constructed before.

