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

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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

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

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

3. We know summarize the Production as average.

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

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

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

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

4. We know summarize in both charts area.

Step-5: Top 10 States with Most Area chart

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

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

3. We know summarize in charts area as average.

4. In the State_Name we select top or bottom option and enter 10 to select Top 10 states.

Step-6: State with Crop Production

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

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

3. In filter we choose crops as option.

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

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

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

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

4. We than use crops as filter.

Step-8: Final Dashboard

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