

# **Estimate the Crop Yield using Data Analytics**

## **Project Development Phase**

### **Sprint delivery II**

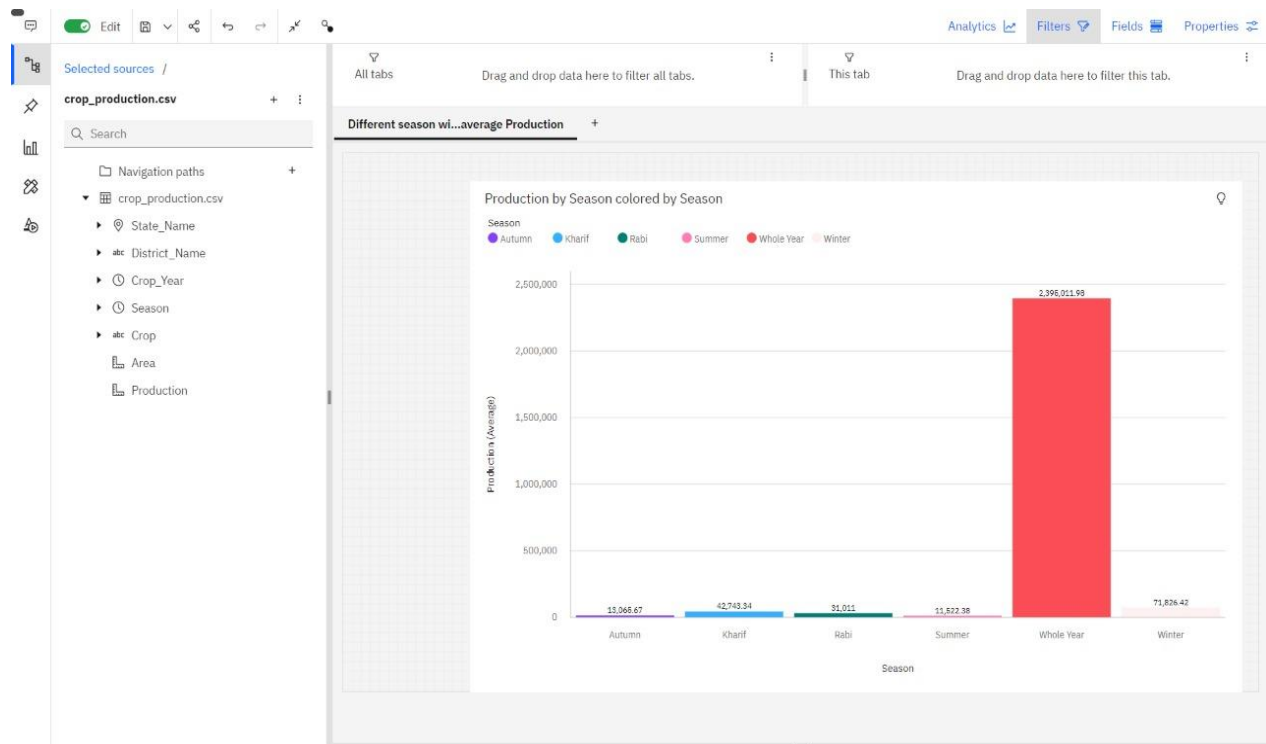
#### **Data Visualization:**

Using the Crop production in Indian dataset, create various graphs and charts to highlight the insights and visualizations. \*Build a Visualization to showcase

- Login to IBM Cognos then in open menu click New - Dashboard.
- Select a template for our dashboard and click create.
- Then select the dataset crop\_production.csv dataset under my content tab and click add In Add a source.
- Rename the tab title with suitable name.
- Select the visualizations chart whatever we want.

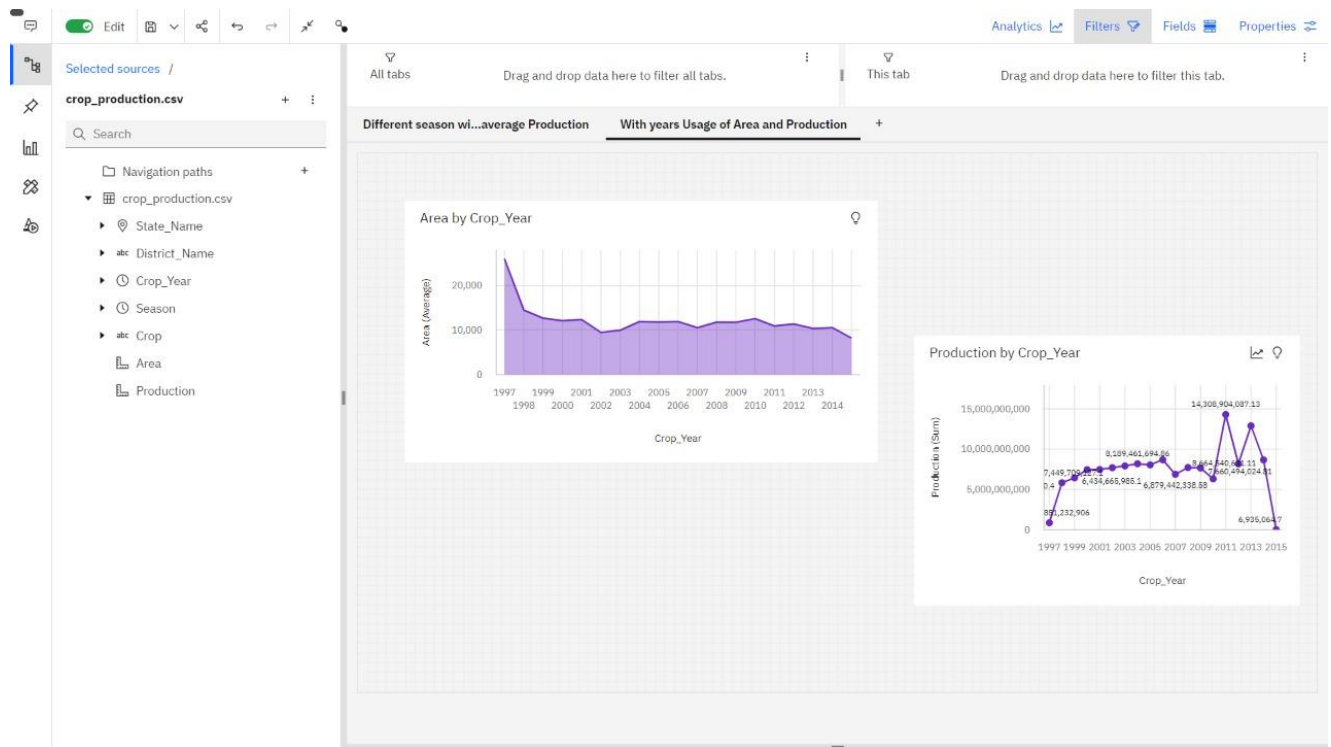
#### **Average Crop Production by Season:**

- We can select the bar chart for visualization the average crop production by season.
- Place the season in bar.
- Place the production in length.
- In color we place the seasons.



## Year usage of Area in Crop Production:

- First we can create the area by production.
  - We can choose the line and column chart for visualization.
  - In x-axis we put crop\_year.
  - In y-axis we put area.
- Second we can create the production by crop\_year.
  - We can choose the line chart for visualization.
  - In x-axis we put crop\_year.
  - In y-axis we put production.



## Top 10 states with most area:

- We can choose bar chart for the visualization.
- In bar we place the state\_name.
- In length we place the area.
- In color we place the state\_name.



## State with the crop production along with season:

- We choose the table chart in column we place the state\_name.
- We use filters
- Then create another table for the season.
- Place season in column.

The screenshot displays a data visualization tool interface. On the left, a sidebar shows the 'Selected sources' section with a file named 'crop\_production.csv'. Below it, a search bar and a tree view of the data fields are visible, including 'Navigation paths', 'crop\_production.csv', 'State\_Name', 'District\_Name', 'Crop\_Year', 'Season', 'Crop', 'Area', and 'Production'. The main workspace features a top navigation bar with tabs: 'All tabs', 'This tab', and 'Crop Grapes'. Below the tabs, there are four filter tabs: 'erent season wl...average Production', 'With years Usage of Area and Production', 'Top 10 States with most area', and 'State with Crop Production'. The 'State with Crop Production' tab is active, showing two table charts. The first chart, titled 'State\_Name and Crop', has columns 'Crop' and 'State\_Name'. The 'Crop' column is filtered to 'Grapes', and the 'State\_Name' column lists: Andhra Pradesh, Haryana, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan, and Tamil Nadu. The second chart, titled 'Season and Crop', has columns 'Crop' and 'Season'. The 'Crop' column is filtered to 'Grapes', and the 'Season' column lists: Kharif and Whole Year.

Crop	State_Name
Grapes	Andhra Pradesh
Grapes	Haryana
Grapes	Karnataka
Grapes	Madhya Pradesh
Grapes	Maharashtra
Grapes	Rajasthan
Grapes	Tamil Nadu

Crop	Season
Grapes	Kharif
Grapes	Whole Year