

Estimate the Crop Yield using Data Analytics

Project Development Phase

Sprint II

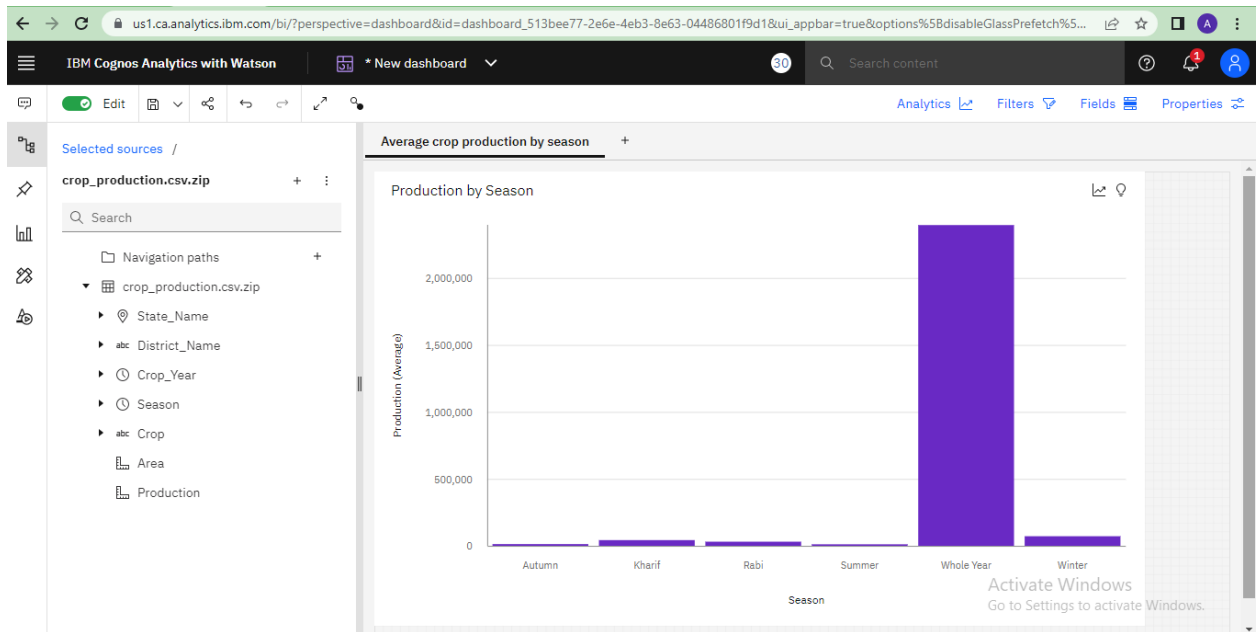
Data Visualization:

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.

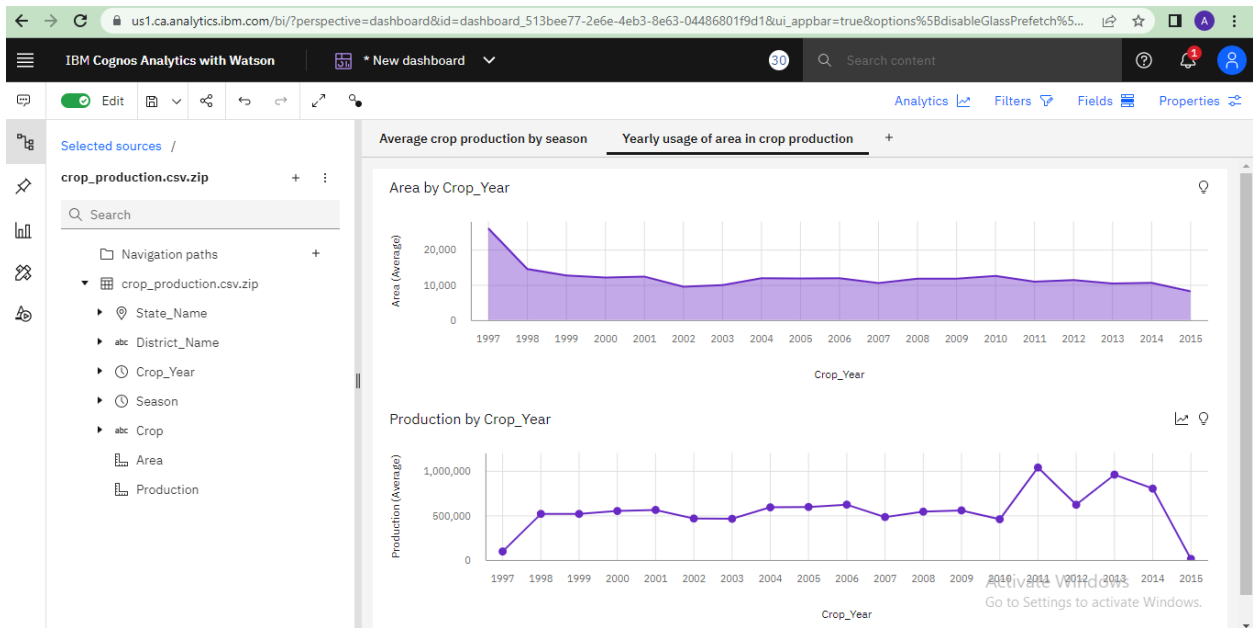
Average Crop Production by Season:

- 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.



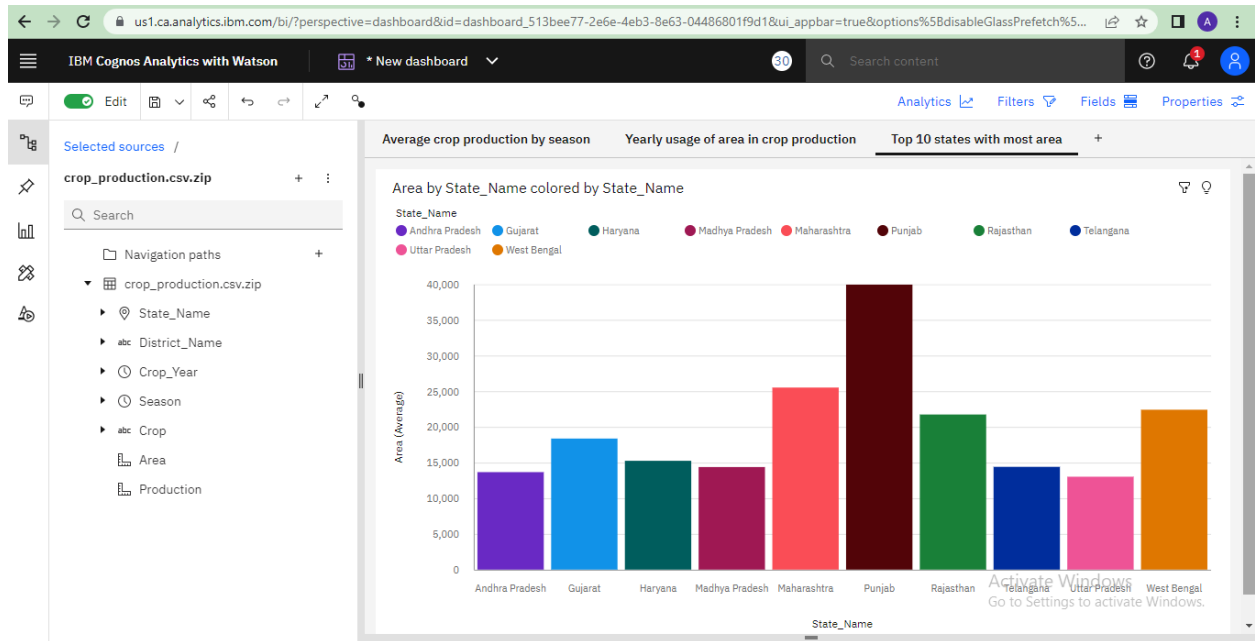
Year usage of Area in Crop Production:

- 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.



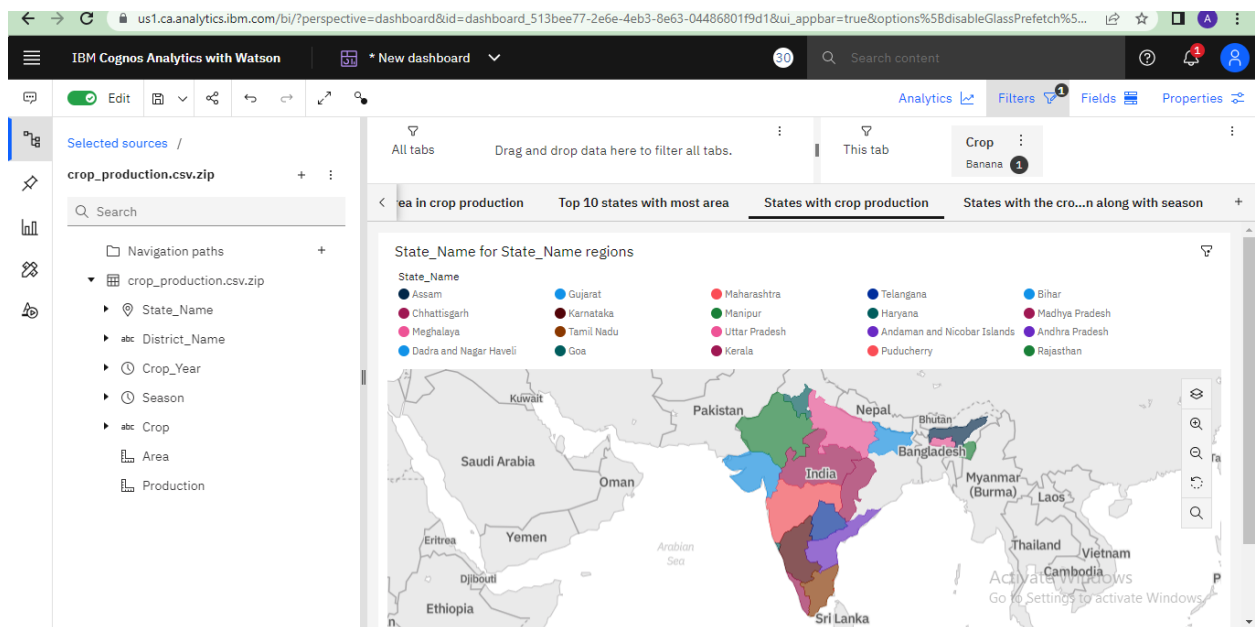
Top 10 states with most area:

- 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 crop production:

- We choose the map chart visualization.
- In location we place the state_name.
- In color we place the state_name.
- We place crop production in filters.
- It will be able to see the production of India.



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 the IBM Cognos Analytics interface. The top navigation bar includes the IBM Cognos Analytics with Watson logo, a 'New dashboard' button, a search bar, and user profile icons. The main workspace is divided into a left sidebar and a central content area. The sidebar shows a tree view of data sources, with 'crop_production.csv.zip' selected. The central content area displays a table chart titled 'Crop and State_Name'. The table has two columns: 'State_Name' and 'Crop'. The data rows list various Indian states and their corresponding crops, all of which are 'Grapes'. The table is presented in a simple, clean format with a light gray background and white text.

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

Activate Windows
Go to Settings to activate Windows.