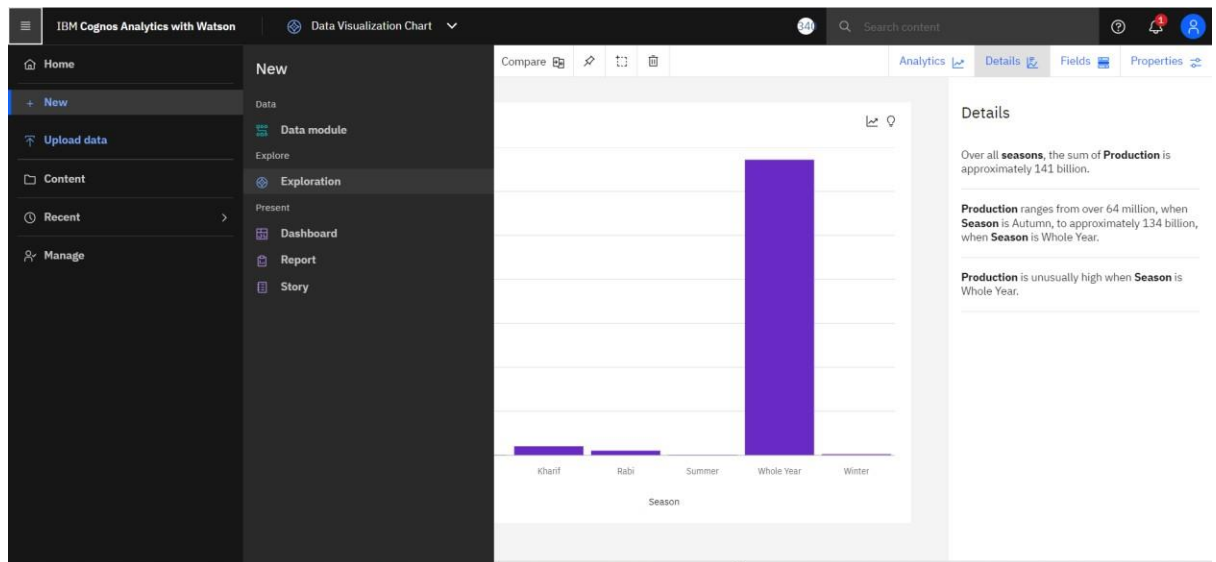


Sprint – 2

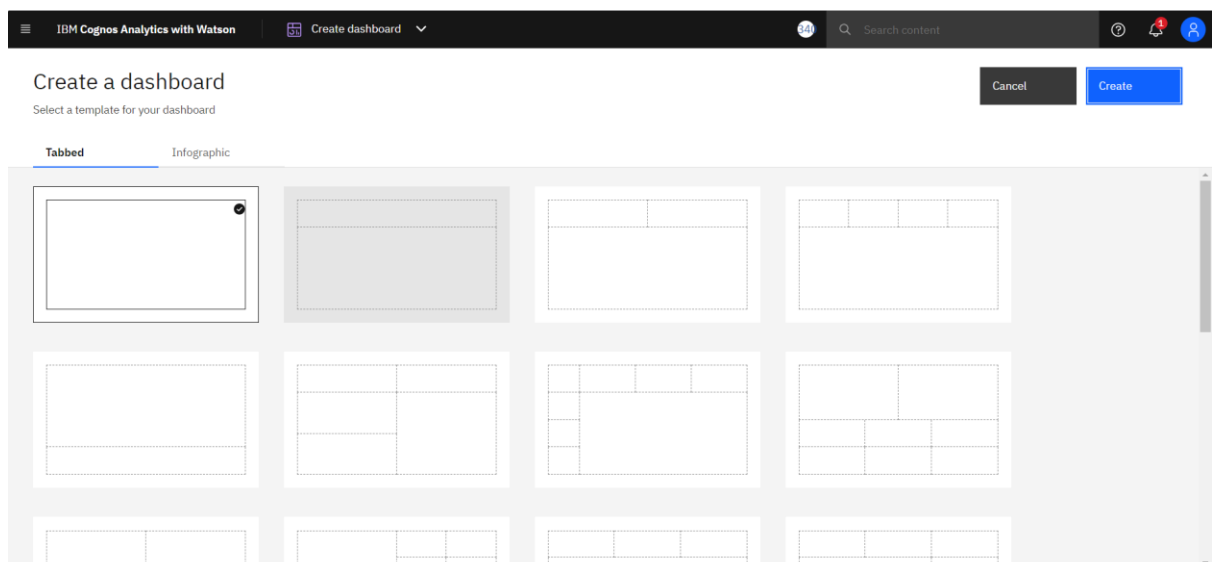
Date	05 November 2022
Team ID	PNT2022TMID53846
Project Name	Estimate the crop yield using Data Analytics

Data Visualization Charts:

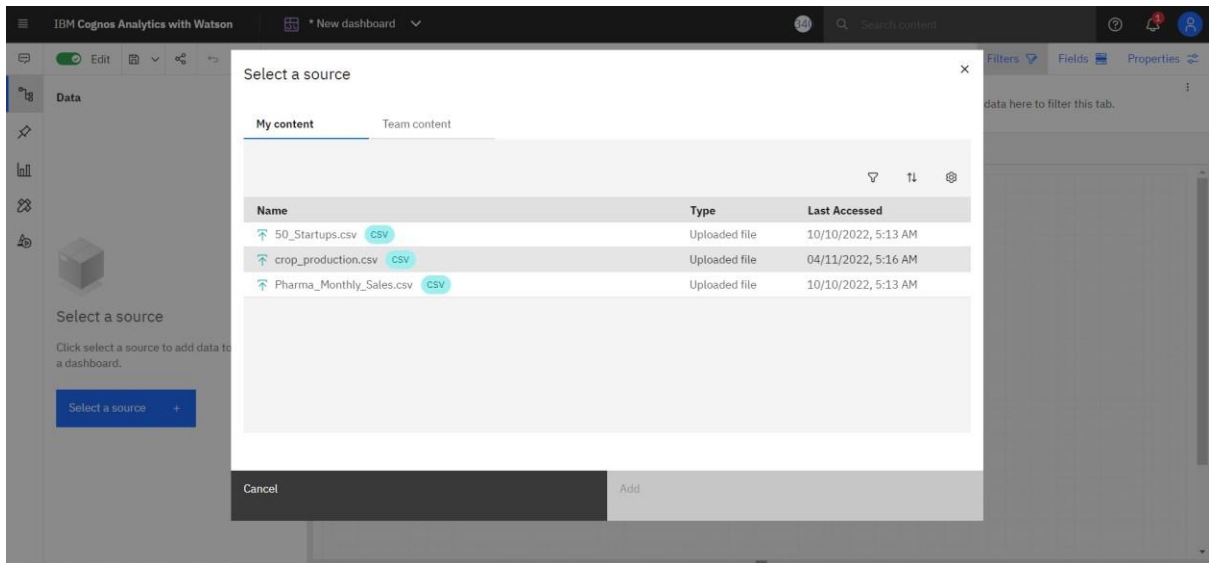
- Login to IBM Cognos then open menu click **New -> Dashboard** .



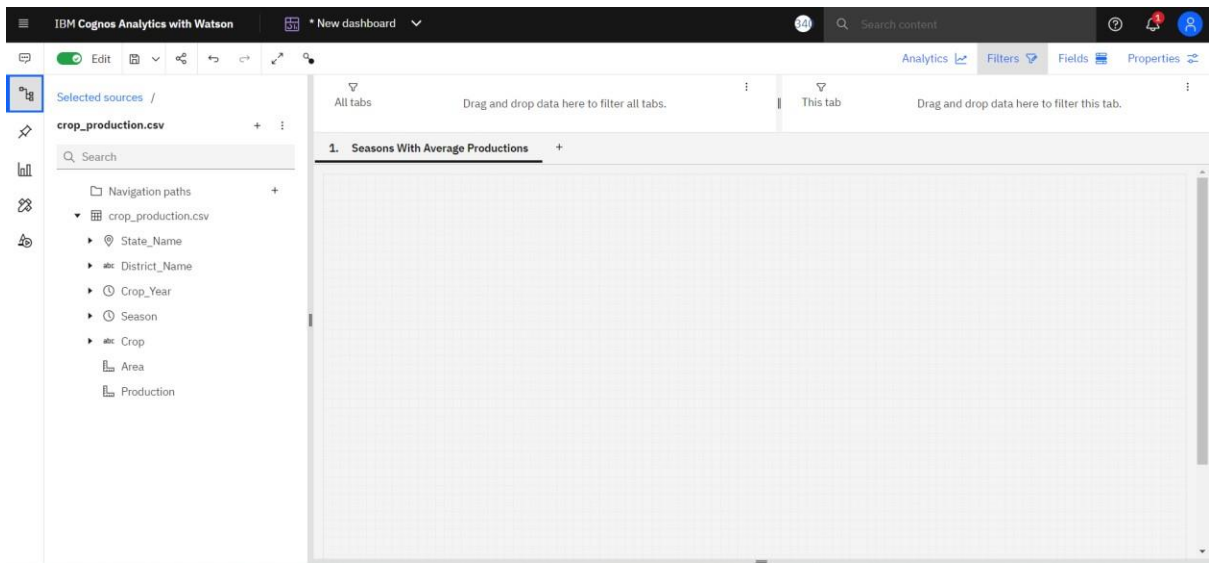
- Select a template for your dashboard and click create.



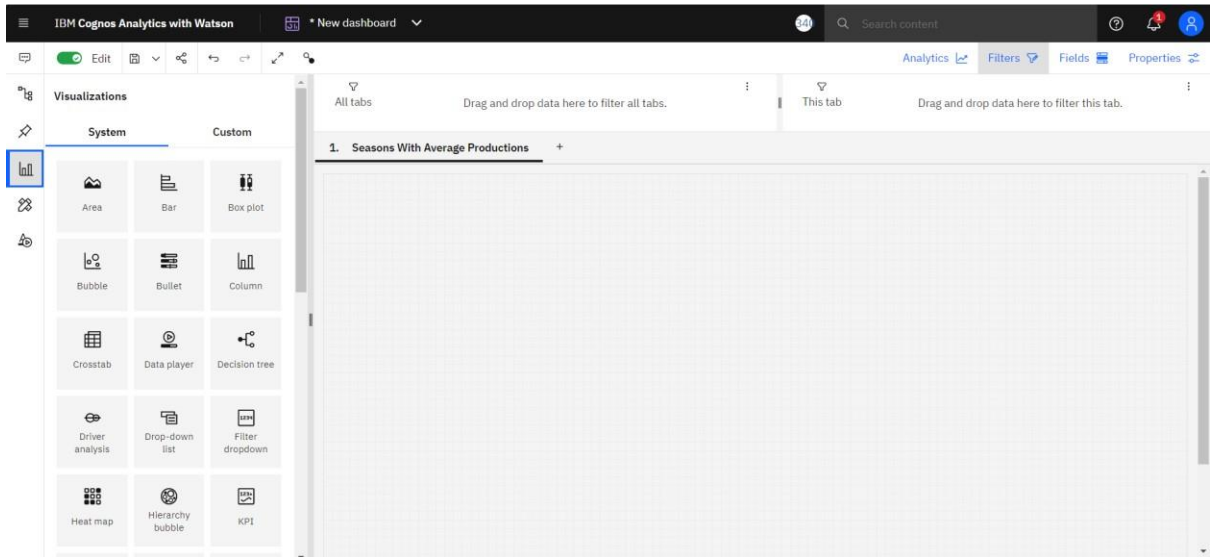
- Then select the **crop_production.csv** dataset under my content tab and click **add** In Add a source.



- Rename the tab title

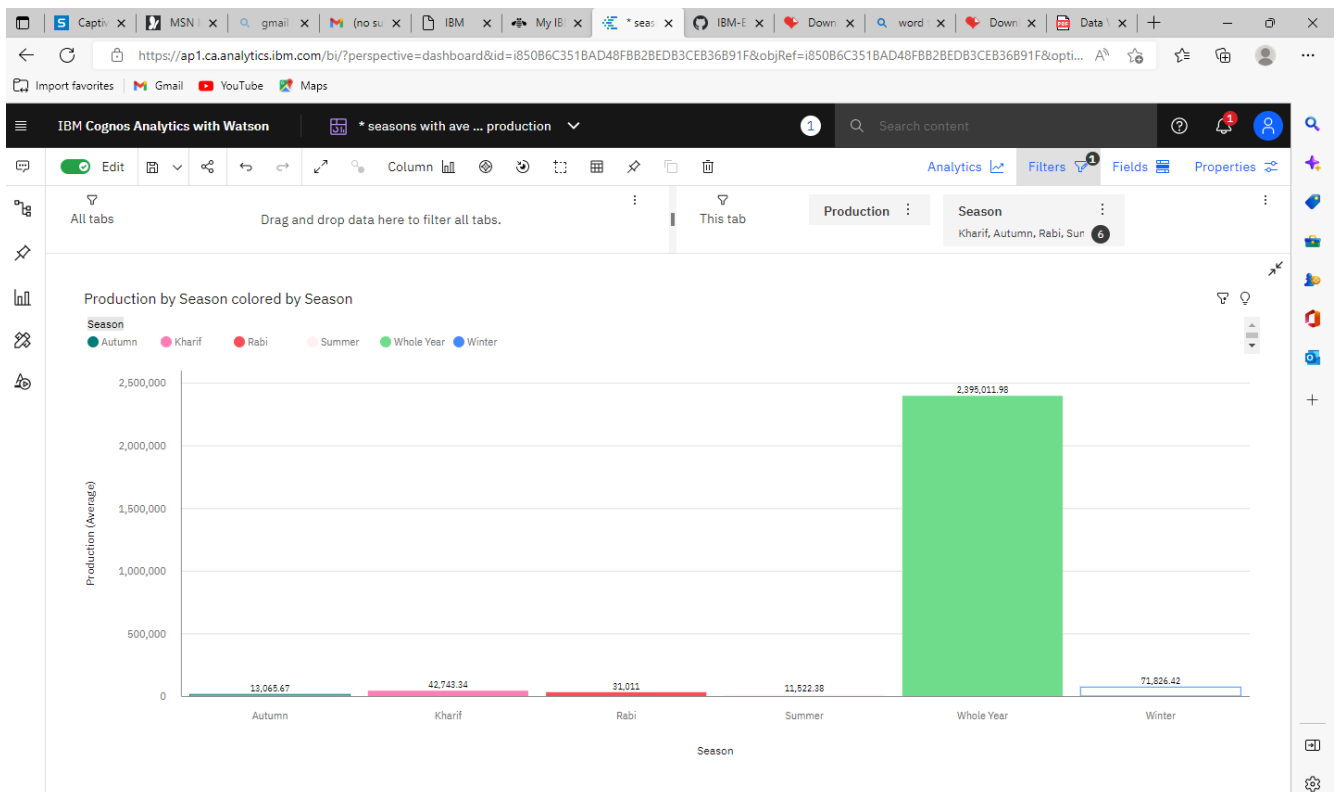


- Select the visualizations and select the system you want.



1. Seasons With Average Productions

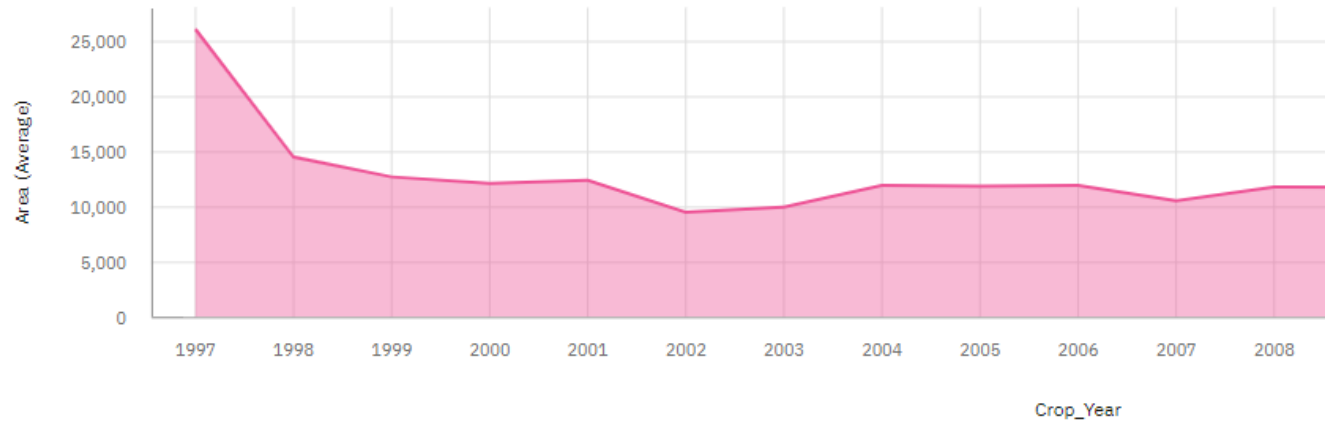
- Select the column in choose visualization and in fields select “Season” for Bars and “Production” for Length.



2. With Years Usage Of Area Production

- Select the Area in choose visualization and in fields select "Crop_Year" for X-axis and "Area" for Y-axis.

Area by Crop_Year

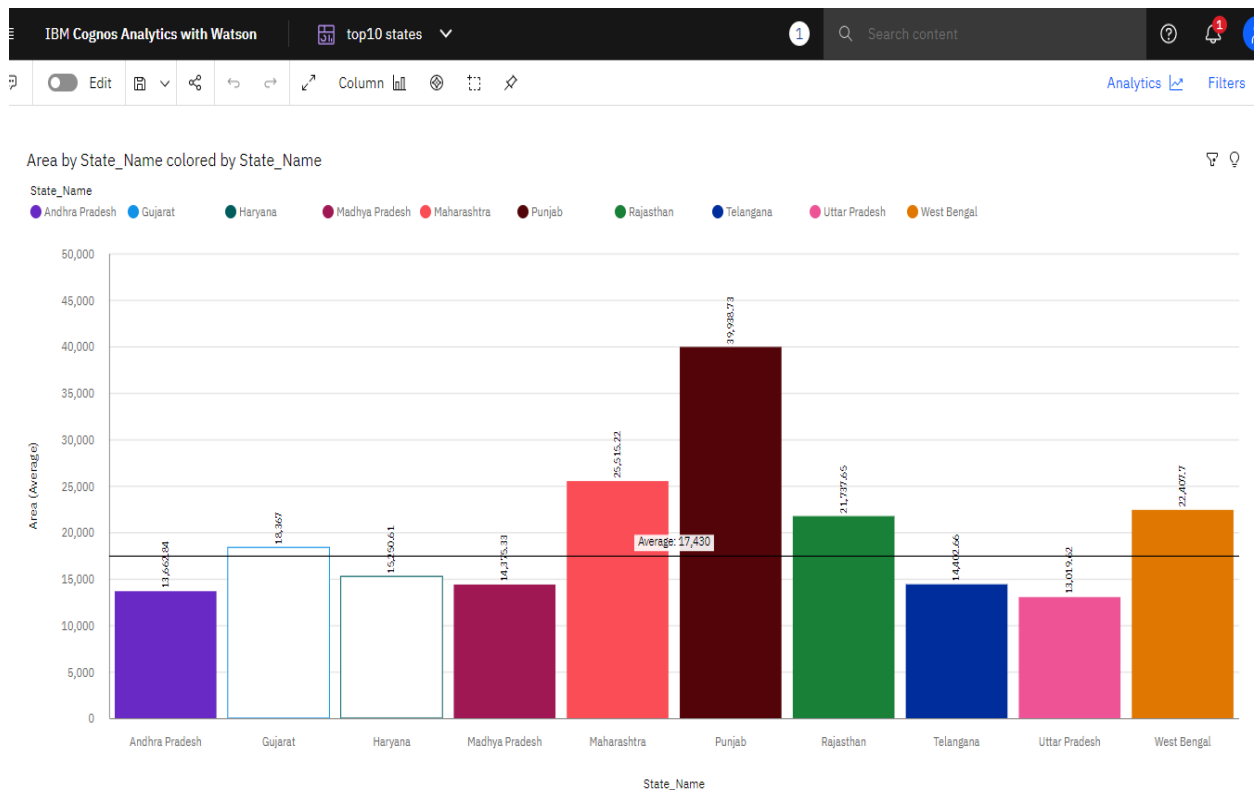


Production by Crop Year



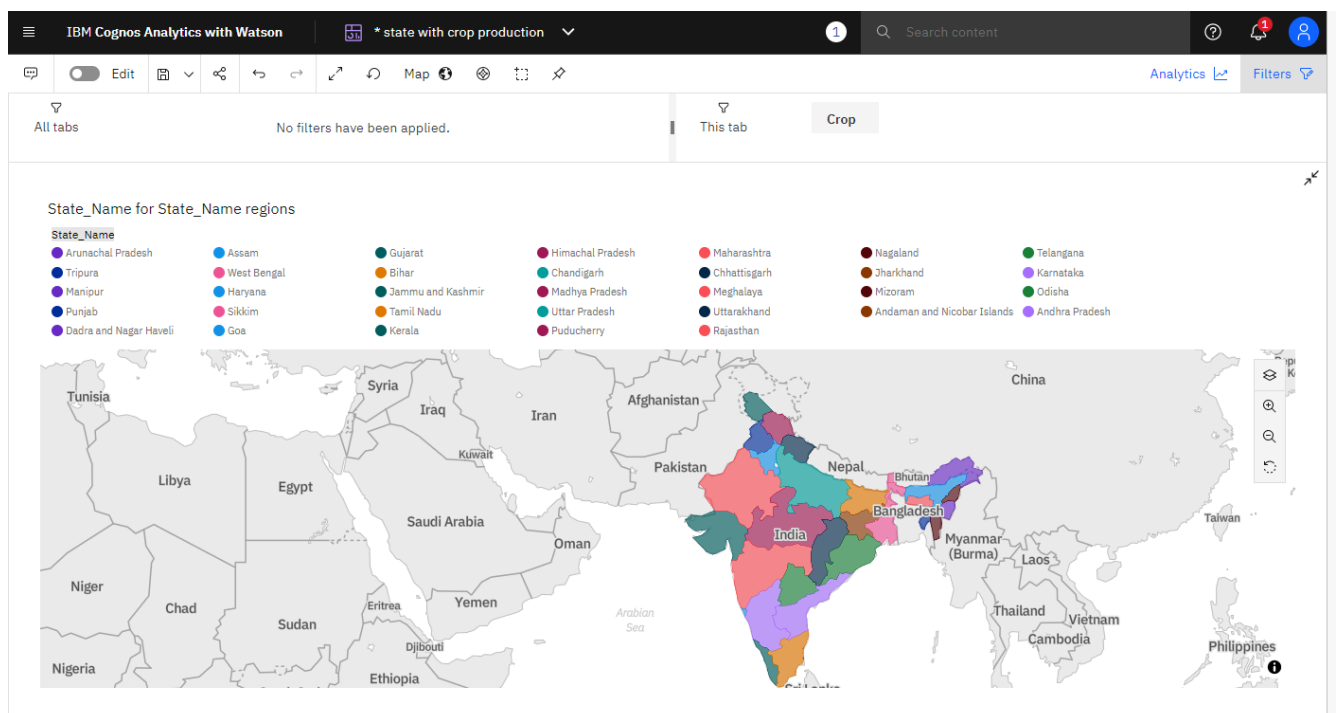
3. Top 10 States With Most Area

- Select the column in choose visualization and in fields select "State_Name" for Bars , "Area" for Length "State_Name" for Color.
- Select three dots in Area -> Summarize -> Average.
- In Area click on the three dots then select Top or bottom
- In Number of Result Enter 10 and select the **Top count** .



4. State With Crop Production

- Select the Map in choose visualization and in fields select “State_Name” for Location and “State_Name and Crop” for Location Color.
- Click three dots in the Crop then select filter and choose particular crop that you want then click done.



5. State With The Crop Production Along With Season(Text Table)

- Select the table in choose visualization and in fields select “State_Name and Crop(sort : Grapes)” for Columns this is for Table 1
- Again Select the table in choose visualization and in fields select “Crop(sort : Grapes) and Season” for Columns this is for Table 2

The screenshot shows the IBM Cognos Analytics interface. The top navigation bar includes the logo, the text "IBM Cognos Analytics with Watson", a dropdown menu with "* states with production text", a search bar with "Search content", and user profile icons. Below the navigation bar is a toolbar with various icons for editing, saving, and viewing. The main content area is divided into two tabs: "All tabs" and "This tab". The "All tabs" tab shows "No filters have been applied." The "This tab" tab shows a table titled "Season and Crop". The table has two columns: "Crop" and "Season". The "Crop" column has a value "Grapes" and the "Season" column has a value "Whole Year".

Crop	Season
Grapes	Whole Year

The screenshot shows the IBM Cognos Analytics interface. The top navigation bar includes the logo, the text "IBM Cognos Analytics with Watson", a dropdown menu with "* states with production text", a search bar with "Search content", and user profile icons. Below the navigation bar is a toolbar with various icons for editing, saving, and viewing. The main content area is divided into two tabs: "All tabs" and "This tab". The "All tabs" tab shows "No filters have been applied." The "This tab" tab shows a table titled "State_Name and Crop". The table has two columns: "Crop" and "State_Name". The "Crop" column has a value "Grapes" and the "State_Name" column has values "Andhra Pradesh", "Haryana", "Karnataka", "Madhya Pradesh", "Maharashtra", "Rajasthan", "Tamil Nadu", and "Telangana".

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

