

# Agriculture Data Analytics In Crop Yield Estimation Using IBM Cognos

Category: IBM Cloud Application

## Introduction:

Crop production in India is one of the important sources of income and India is one of the top countries to produce crops. As per this project we will be analyzing some important visualization, creating a dashboard and by going through these we will get most of the insights of Crop production in India.

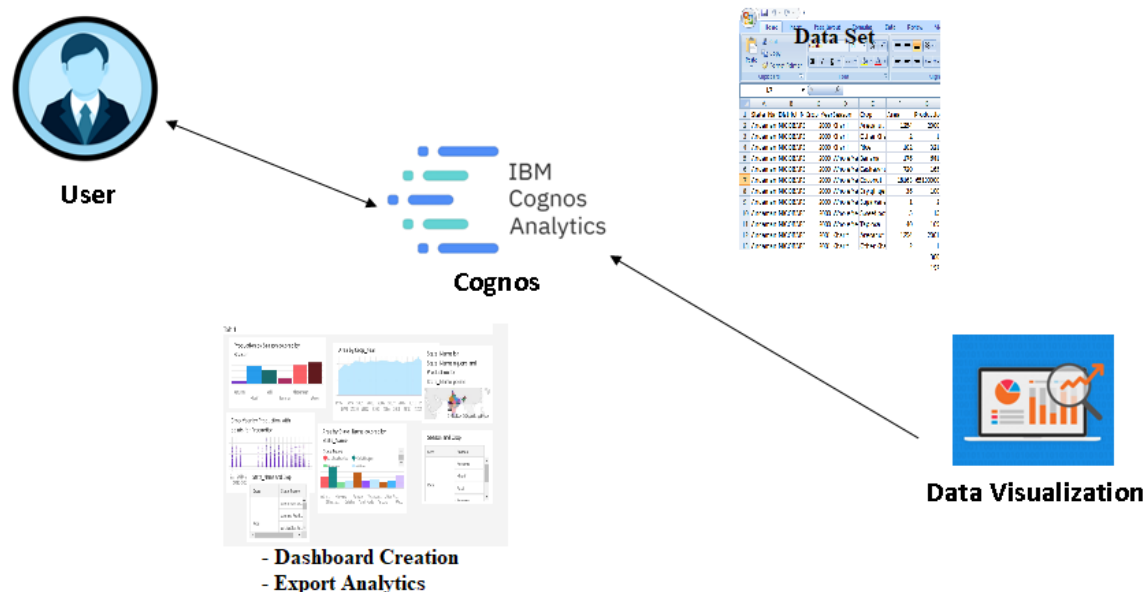


Fig. Architecture

## Project WorkFlow:

Firstly, Access IBM cloud account, Cognos Analytics after successfully login to accounts. The data set on crop production is downloaded which is provided on cloud platform. One should analyse the data set which has 2,46,092 data points (rows) and 6 features (columns) describing each crop production related details. we should understand the data that we are working with and it has many features like state, crop year, state name, etc.,

Secondly, before we build a view and analyze the data we should connect to IBM cognos which is provided in the dashboard.

Thirdly, start creating graphs under each tab by selecting or drag and drop the visualizations as per the query and highlight the insights which is in fields and properties button.

Graphs created for the following :

1. Seasons with average productions
2. With years usage of Area and Production
3. Top 10 states with most area
4. State with crop production
5. States with the crop production along with season (In Text table format)

Fourthly, Create Dashboard: All the created views on different tabs in Cognos Analytics pull them into a Dashboard.

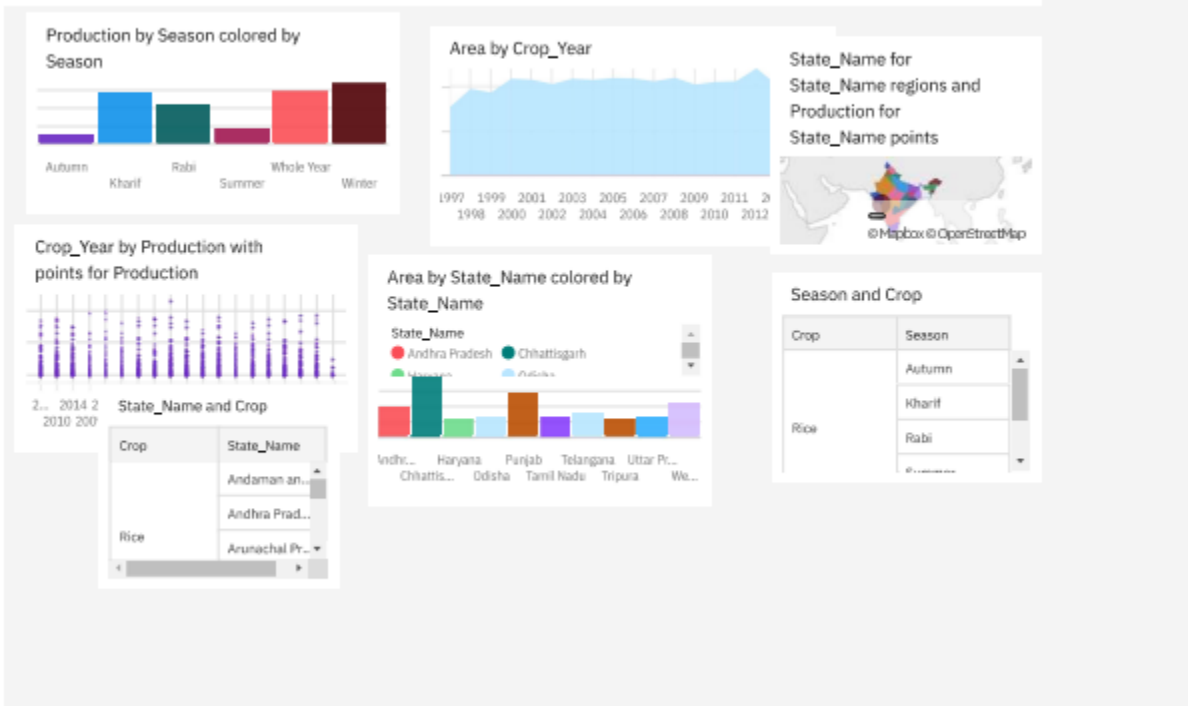
Finally select Export Analytics button which will create a file in PDF format and you can showcase via Email etc.,

Below are my Project Screenshots

8/10/22, 4:07 PM

\* Different Season with Crop Production

Tab 1



Thank you all the Mentors for your guidance!!