Agriculture Data Analytics In Crop Yield Estimation Using IBM Cognos

Category: IBM Cloud Application
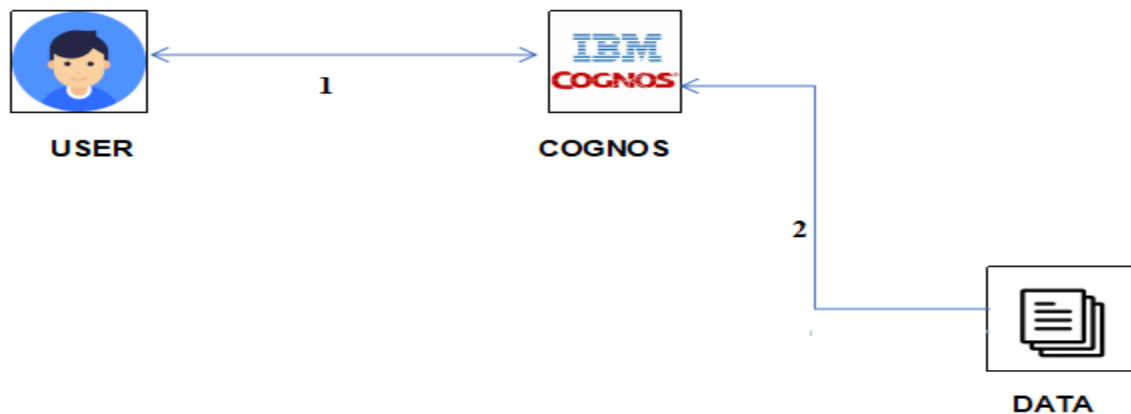
Skills Required:
IBM Cloud

Project Description:

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.

Architecture:

Solution Requirements

Service Used:IBM Cognos Analytics.

Project Objectives

By the end of this project, I shall:

- Know fundamental concepts and can work on IBM Cognos Analytics.
- Gain a broad understanding of plotting different graphs.
- Able to create meaningful dashboards

Project Flow

- Users create multiple analysis graphs/charts.
- Using the analyzed chart creation of Dashboard is done.
- Saving and Visualizing the final dashboard in the IBM Cognos Analytics.

To accomplish this, we have to complete all the activities and tasks listed below

- IBM Cloud Account
- Login to Cognos Analytics
- Working with the Dataset
  - Understand the Dataset
  - Loading the Dataset
- Data visualization charts
  - Seasons with average productions
  - With years usage of Area and Production
  - Top 10 States with most area
  - State with crop production
  - States with the crop production along with season (Text Table)
- Dashboard Creation
- Export the Analytics

- **Understand The Dataset**

- Duration: 0.2 Hrs

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- Skill Tags:

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- This project is based on a understanding the crop production of India .Download the dataset from the below link. It has 2,46,092 data points (rows) and 6 features (columns) describing each crop production related details.

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- Dataset Link :Dataset

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- Let's understand the data we're working with and give a brief overview of what each feature represents or should represent

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- 1. State Name - All the Indian State names.

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- 2. District Name -Different District names.

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- 3. Crop Year- contains the crop years.

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- 4. Season – Different seasons for crop production.

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- 5. Area- Total number of areas covered.

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- 6. Production- production of crops.

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Data Visualization Charts

Using the Crop production in Indian dataset, we plan to create various graphs and charts to highlight the insights and visualizations.

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