

Agriculture Data Analytics in Crop Yield Estimation using IBM Cognos

1. Introduction

1.1 Overview of the Project

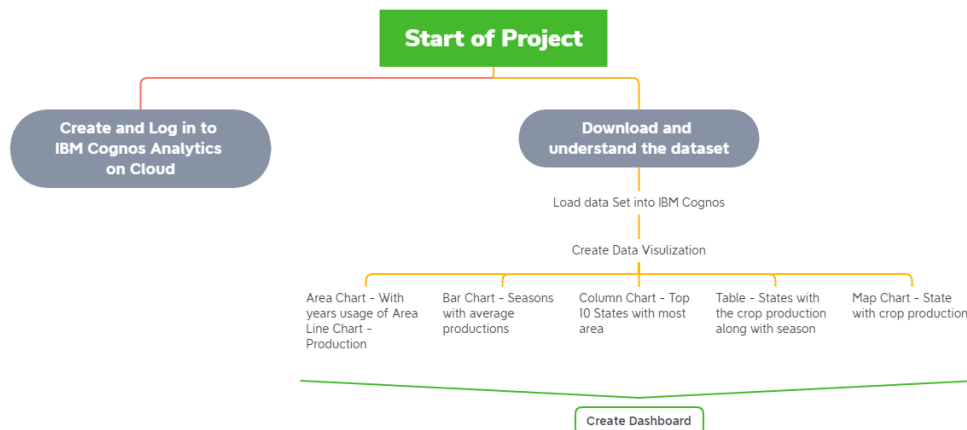
In GDP of India, more than 19% share is from Agriculture. So, It is important to analyse the Crop Production data of Indian Agriculture market. This project is aimed to create fruitful visualization using Cognos Analytics on cloud for said data.

In this project various types of visualization is created to find the insights from Crop Production data of Indian market.

1.2 Purpose

The purpose of this project is to know about the fundamental concepts of IBM Cognos on cloud, the working with IBM Cognos, to work with various graph and charts and to create meaningful dashboard.

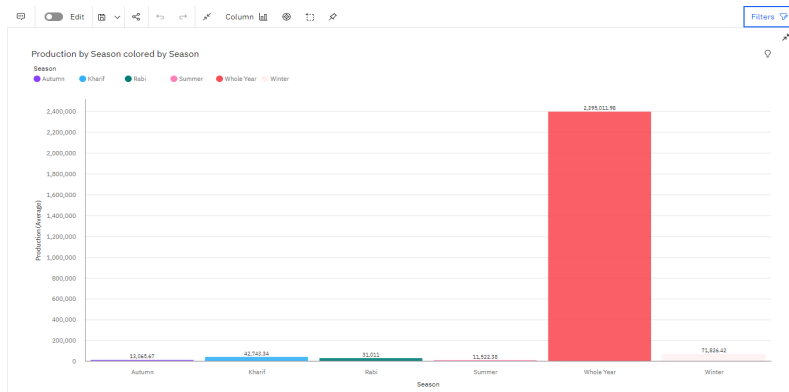
2. Flow chart of the Project



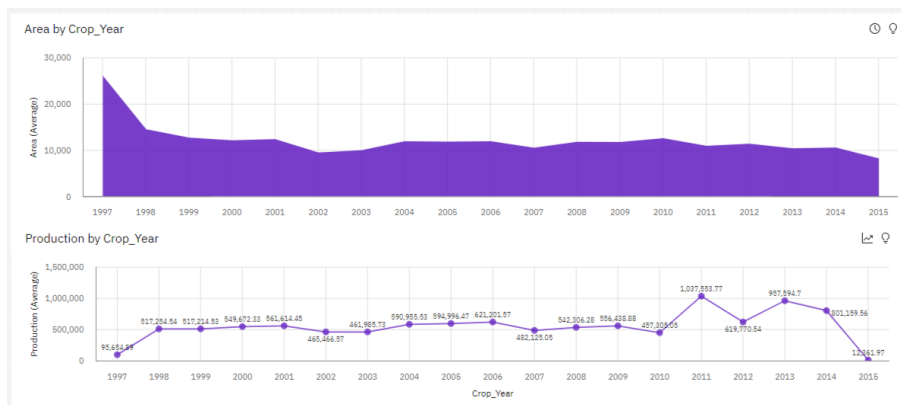
3. Output

Various outputs of the visualization are given below.

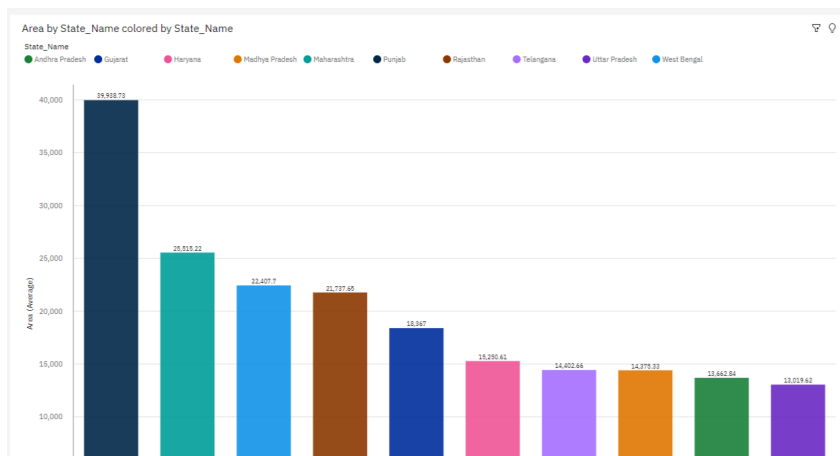
1. Seasons with average productions



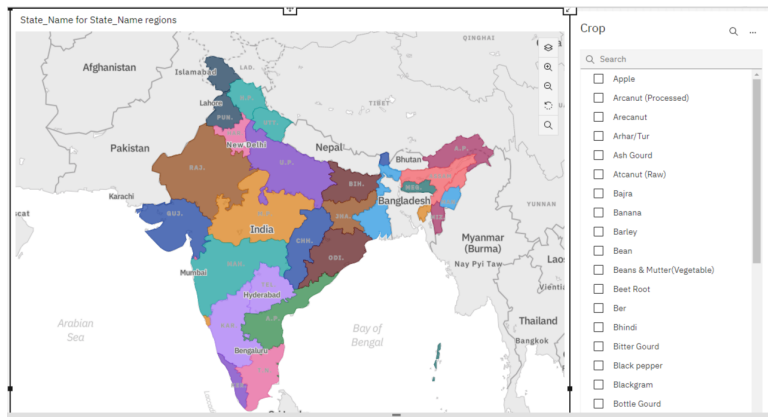
2. With years usage of Area and Production



3. Top 10 States with most area



4. State with crop production



5. States with the crop production along with season

Dashboard interface showing crop production data for states in South Asia. The dashboard includes a map and a table of crop production data.

States 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 W**

State_Name and Crop

State_Name	Crop
	Areca nut
	Arhar/Tur
	Banana
	Black pepper
	Cashewnut
	Coconut
	Dry chillies
	Dry ginger
	Groundnut
	Maize
	Moong (Green Gram)
	Other Kharif pulses
	Rice
	Sugarcane
	Sunflower
	Sweet potato
	Tapioca
	Turmeric
	Urad

Season and Crop

Crop	Season
	Kharif
	Rabi
	Whole Year
Areca nut	
Arhar/Tur	Rabi
Banana	Whole Year
Black pepper	Rabi
	Whole Year
Cashewnut	Rabi
	Whole Year
Coconut	Whole Year
Dry chillies	Rabi
	Whole Year
Dry ginger	Rabi
	Whole Year
Groundnut	Rabi
Maize	Rabi
Moong (Green Gram)	Rabi
Other Kharif pulses	Kharif
	Autumn

By clubbing all above visualization Dashboard is prepared.