Analyzing Agriculture in India and making strategic decisions based on it according to population

PROJECT FLOW:

1. Data collection

➤ Collect the dataset
➤ Connect dataset with cognos analytics

2. Data visualizations

➤ Unique visualization

3. Dashboard

➤ Dashboard 1
➤ Dashboard 2
➤ Dashboard 3
➤ Dashboard 4
➤ Dashboard 5

4. Story

➤ Web integration

1. DATA COLLECTION

i)Collect the dataset

Please use the link to download the dataset:

https://www.kaggle.com/datasets/pyatakov/india-agriculture-crop-production
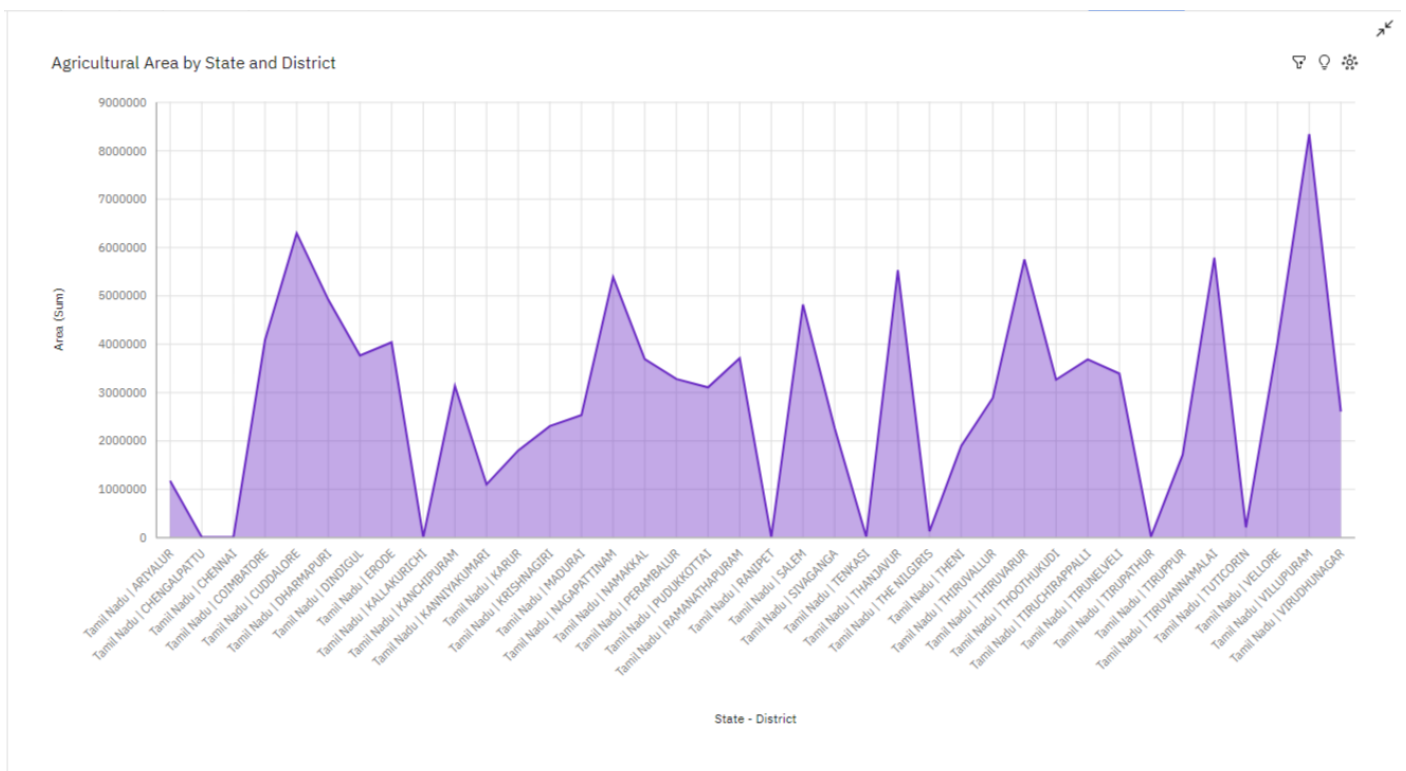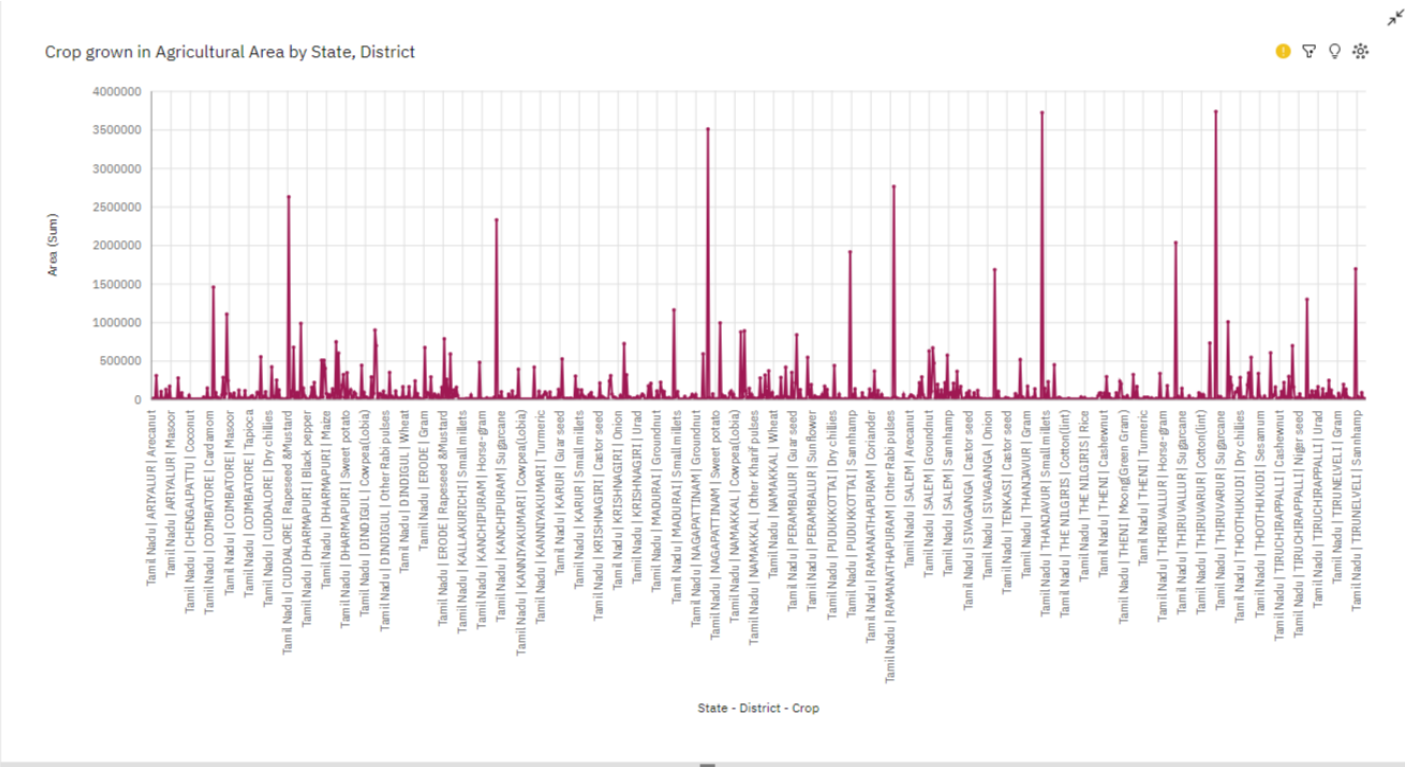
ii)Connect the dataset to cognos analytics

2. DATA VISUALIZATIONS

Unique visualizations

- ## Agricultural area by state and district analysis:

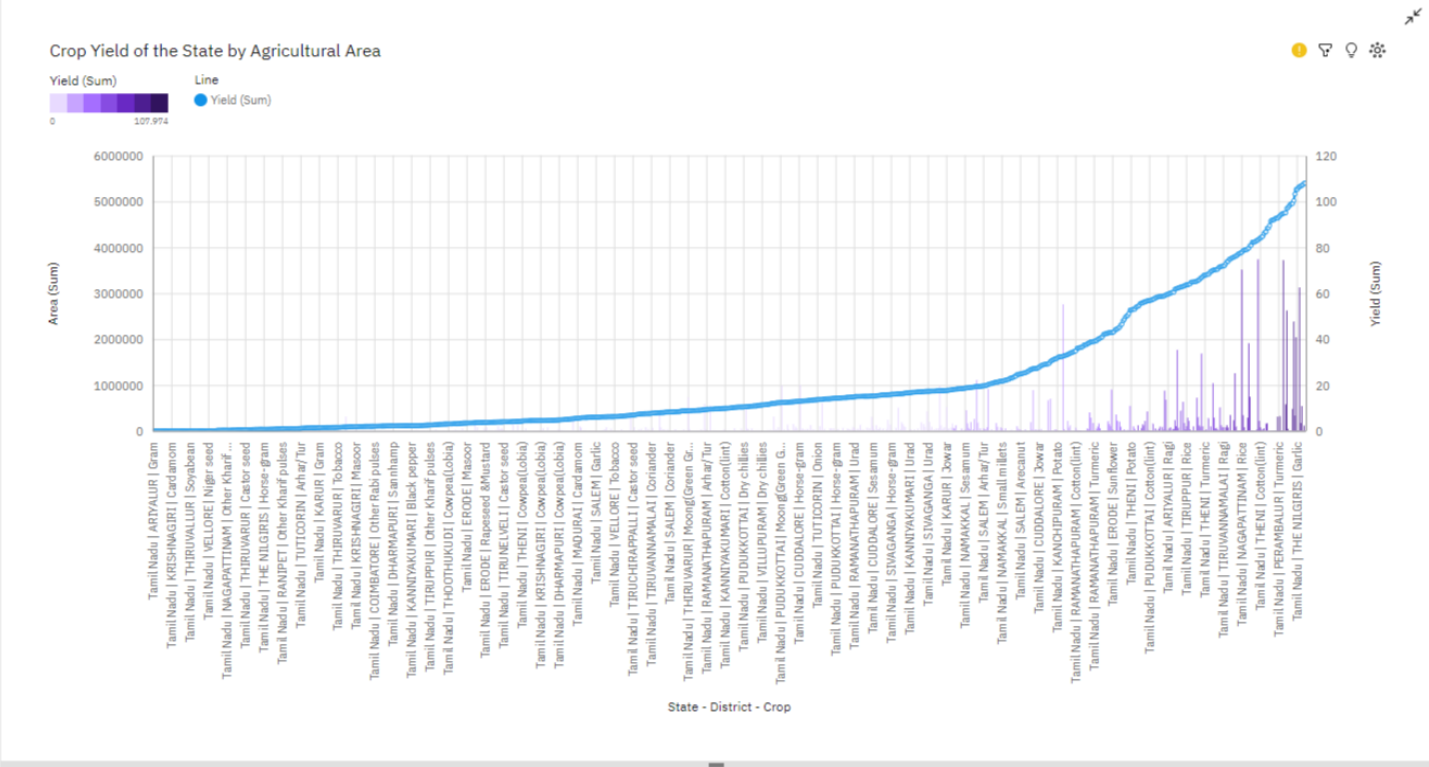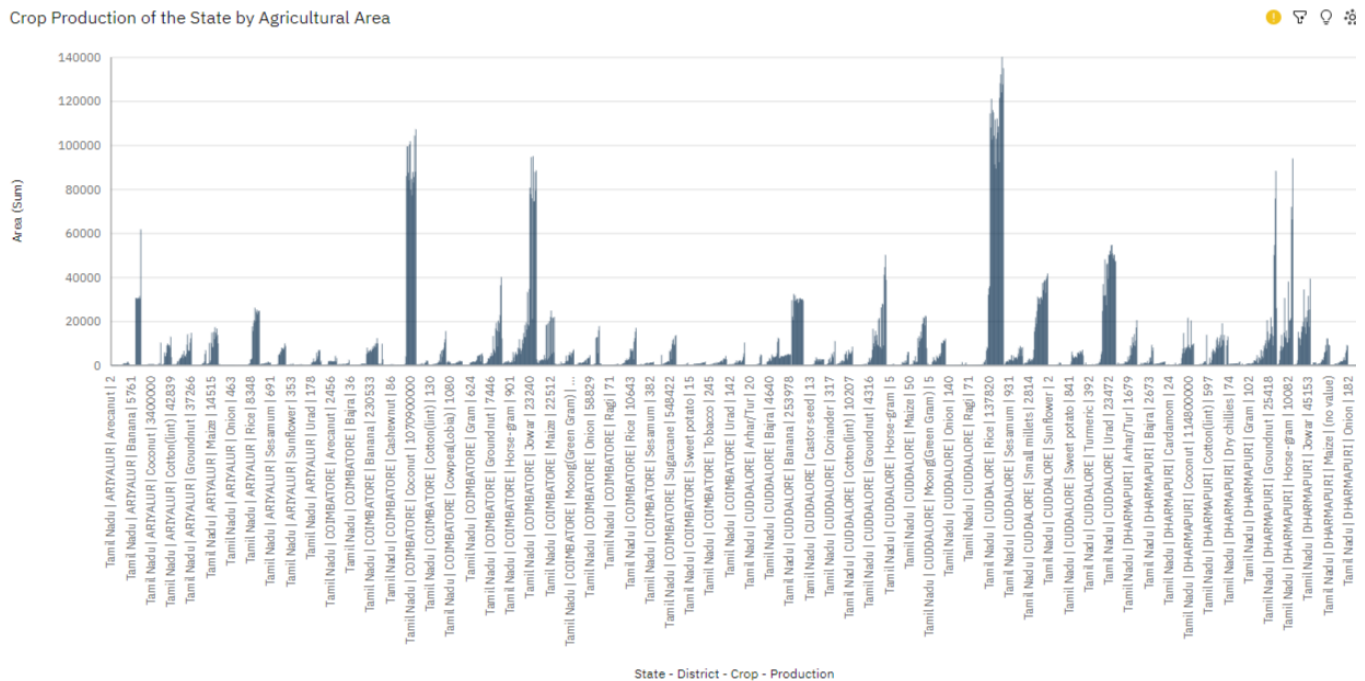- Crop grown in Agricultural Area by State and district:

Crop grown in Agricultural Area by State, District

- Crop yield of the state by agricultural area:

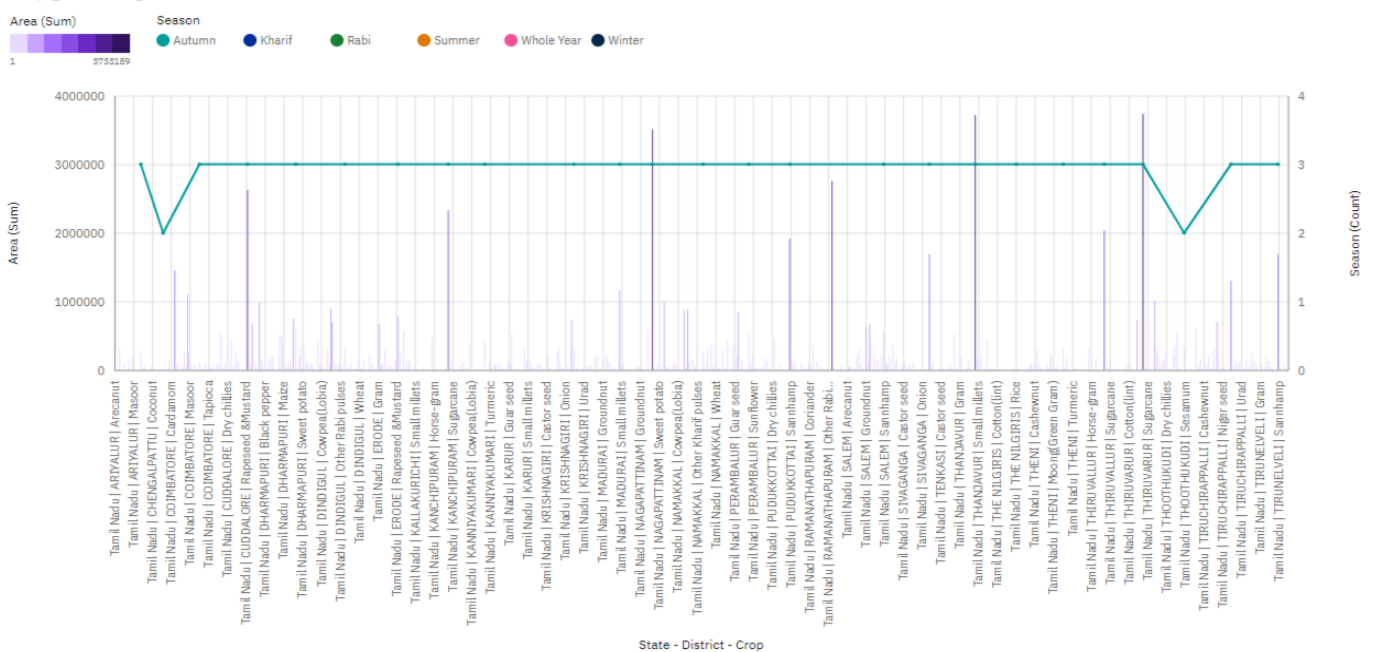Crop Yield of the State by Agricultural Area
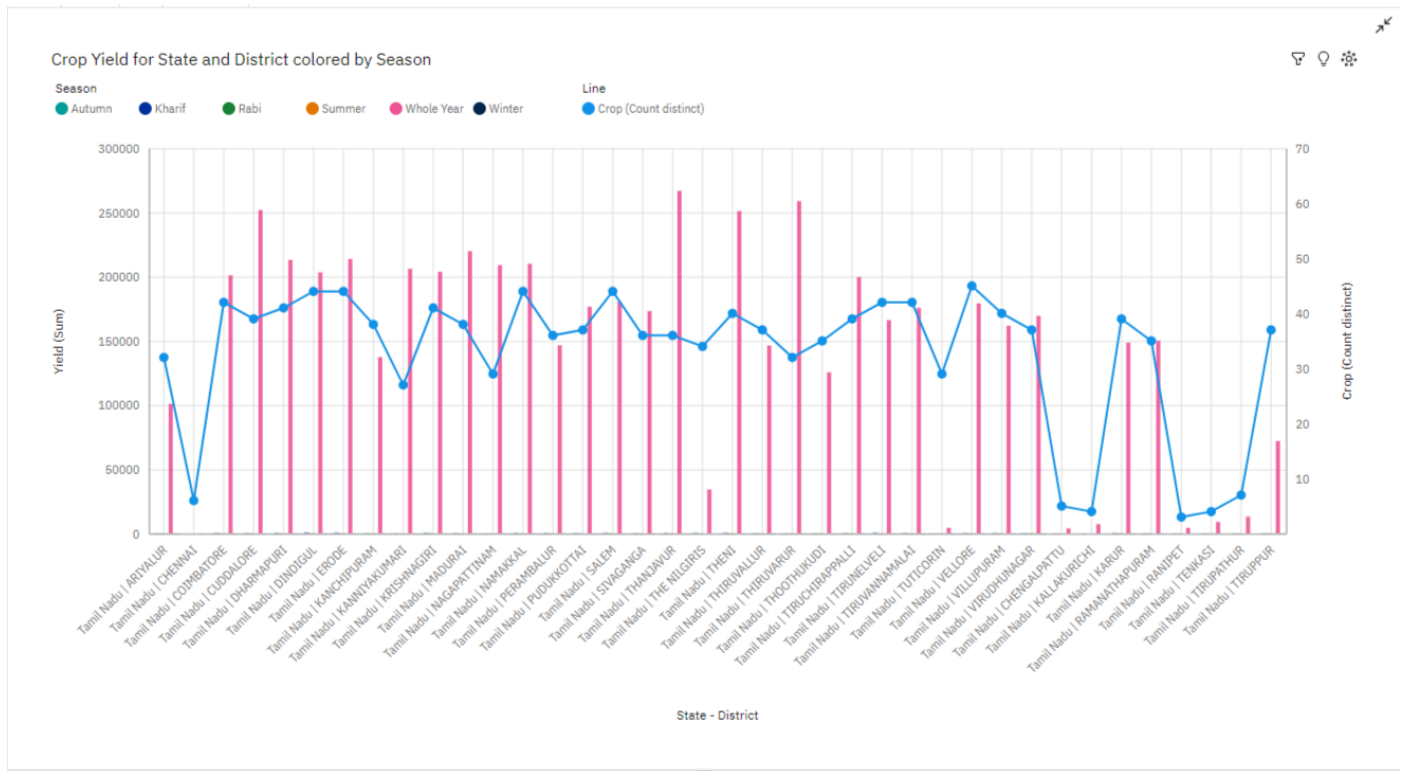
- Crop production of the state by agricultural area:

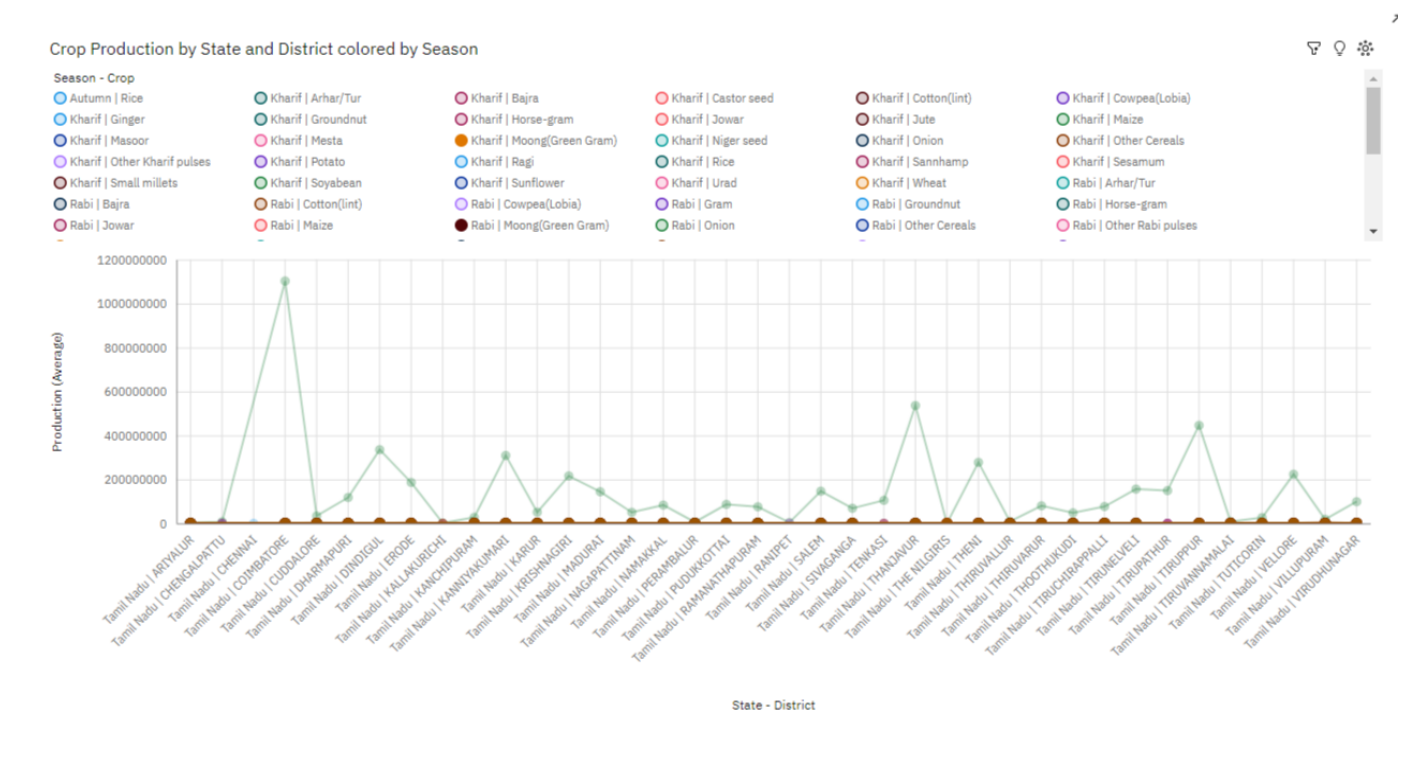- Crop grown in Agricultural Area for state and district on season:
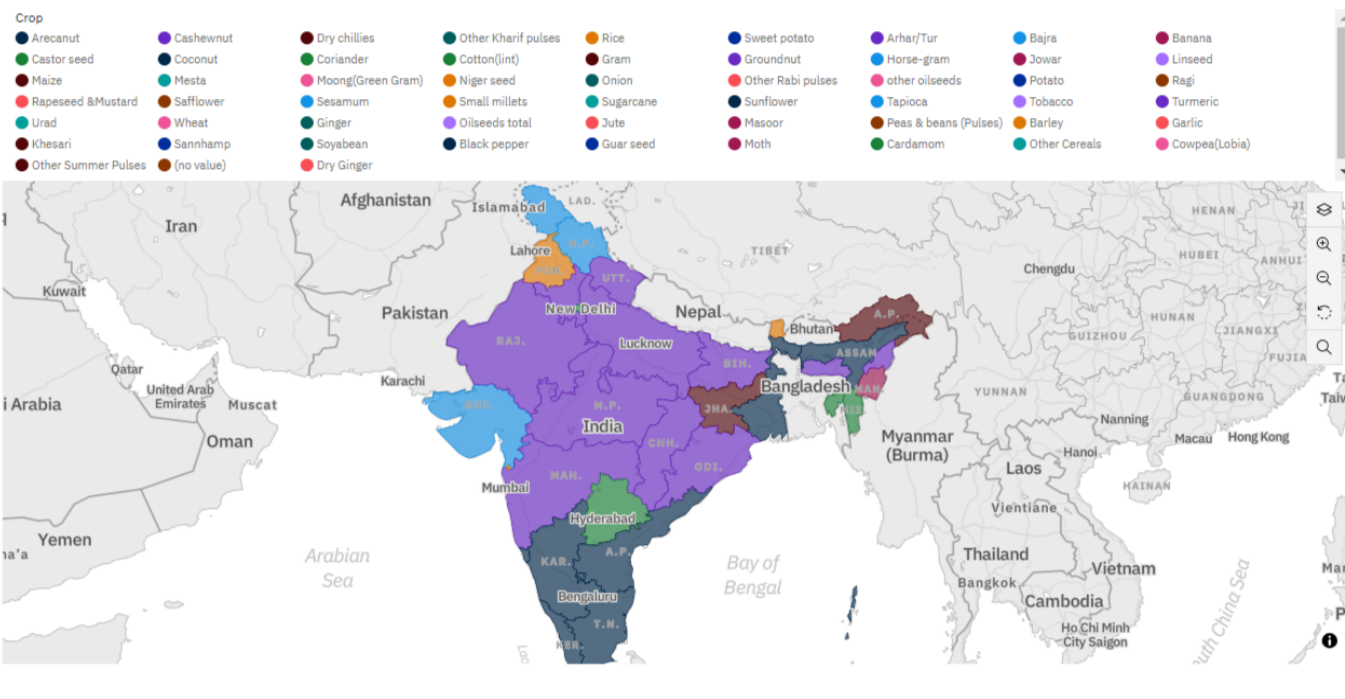
● Crop yield for state and district colored by season:
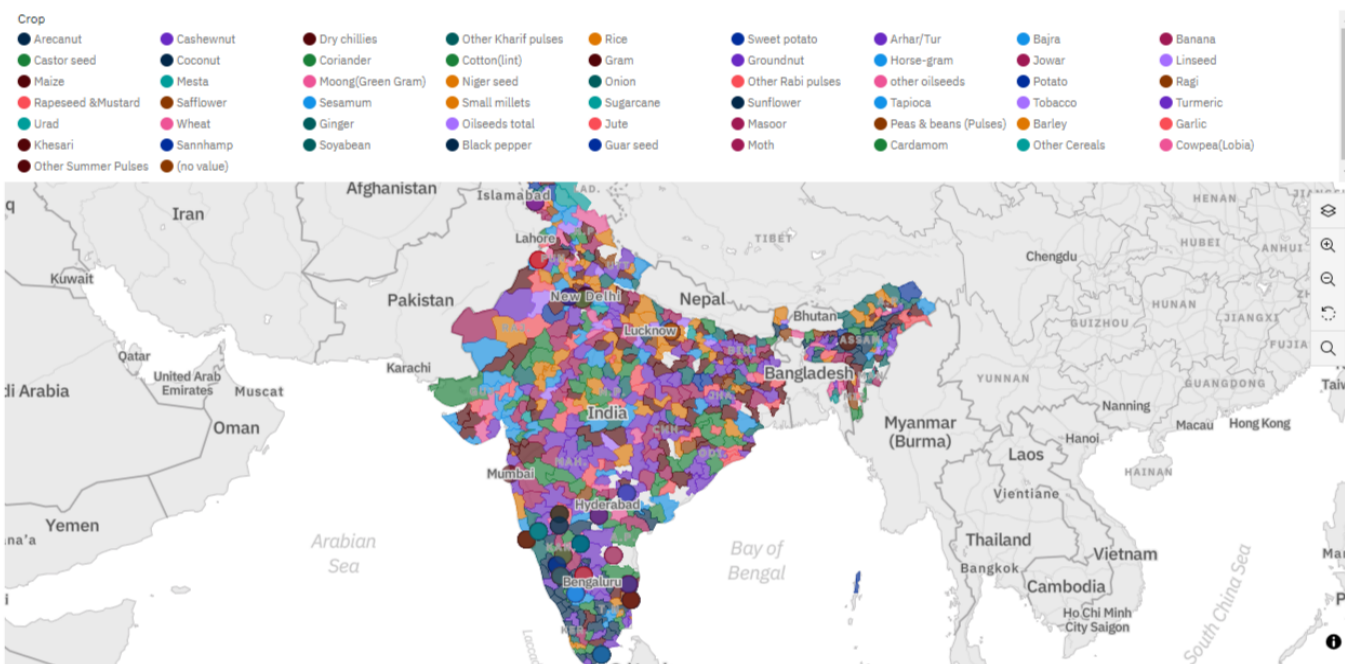

Crop Yield for State and District colored by Season

Season
● Autumn ● Kharif ● Rabi ● Summer ● Whole Year ● Winter

Line
● Crop (Count distinct)

● Crop production by state and district colored by season:

Crop Production by State and District colored by Season

Season - Crop
○ Autumn | Rice   ○ Kharif | Arhar/Tur   ○ Kharif | Bajra   ○ Kharif | Castor seed   ○ Kharif | Cotton(lint)   ○ Kharif | Cowpea(Lobia)
○ Kharif | Ginger   ○ Kharif | Groundnut   ○ Kharif | Horse-gram   ○ Kharif | Jowar   ○ Kharif | Jute   ○ Kharif | Maize
○ Kharif | Masoor   ○ Kharif | Mesta   ● Kharif | Moong(Green Gram) ○ Kharif | Niger seed   ○ Kharif | Onion   ○ Kharif | Other Cereals
○ Kharif | Other Kharif pulses ○ Kharif | Potato   ○ Kharif | Ragi   ○ Kharif | Rice   ○ Kharif | Sannhamp   ○ Kharif | Sesamum
○ Kharif | Small millets ○ Kharif | Soyabean   ○ Kharif | Sunflower   ○ Kharif | Urad   ○ Kharif | Wheat   ○ Rabi | Arhar/Tur
○ Rabi | Bajra   ○ Rabi | Cotton(lint)   ○ Rabi | Cowpea(Lobia)   ○ Rabi | Gram   ○ Rabi | Groundnut   ○ Rabi | Horse-gram
○ Rabi | Jowar   ○ Rabi | Maize   ● Rabi | Moong(Green Gram) ○ Rabi | Onion   ○ Rabi | Other Cereals   ○ Rabi | Other Rabi pulses
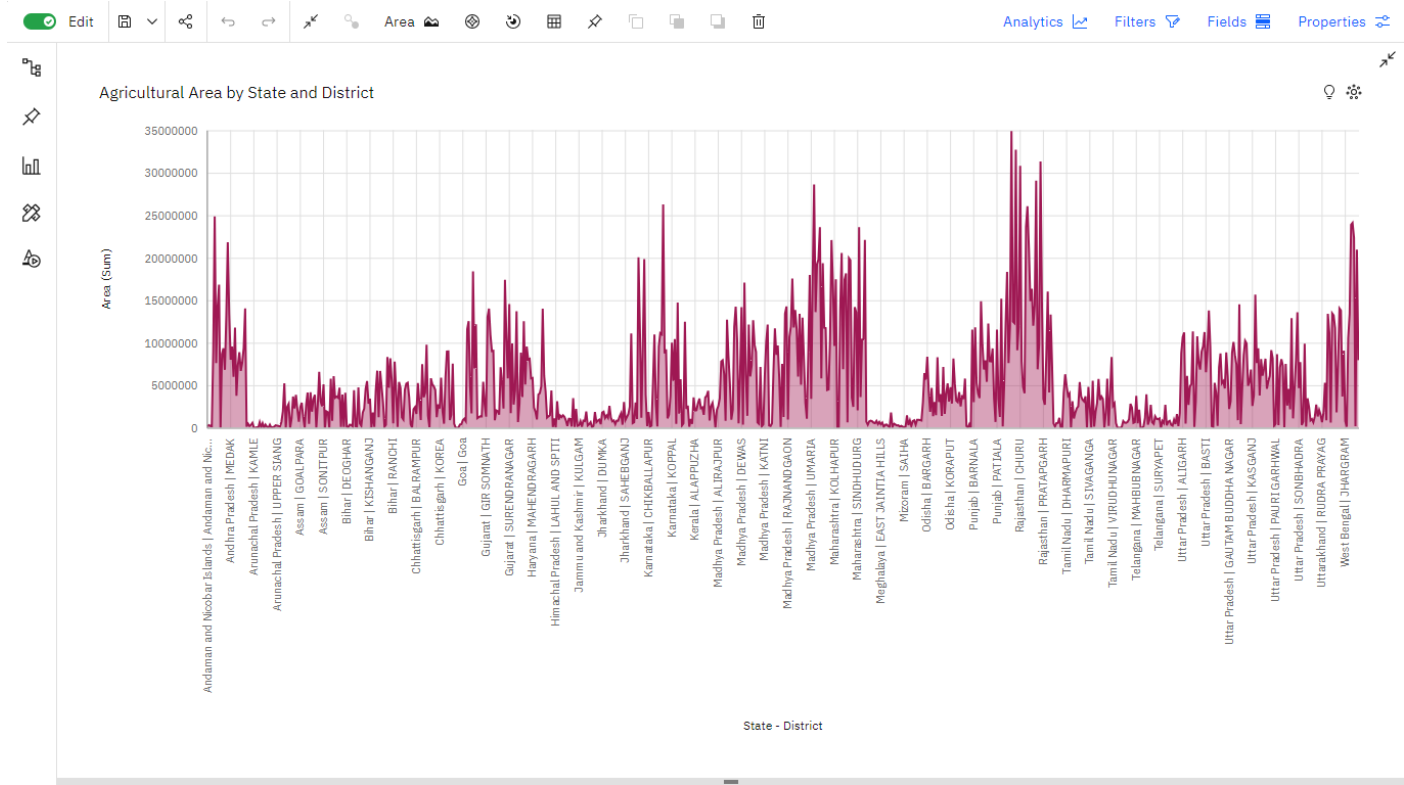
- Crop for state regions:

- Crop for state and district regions:

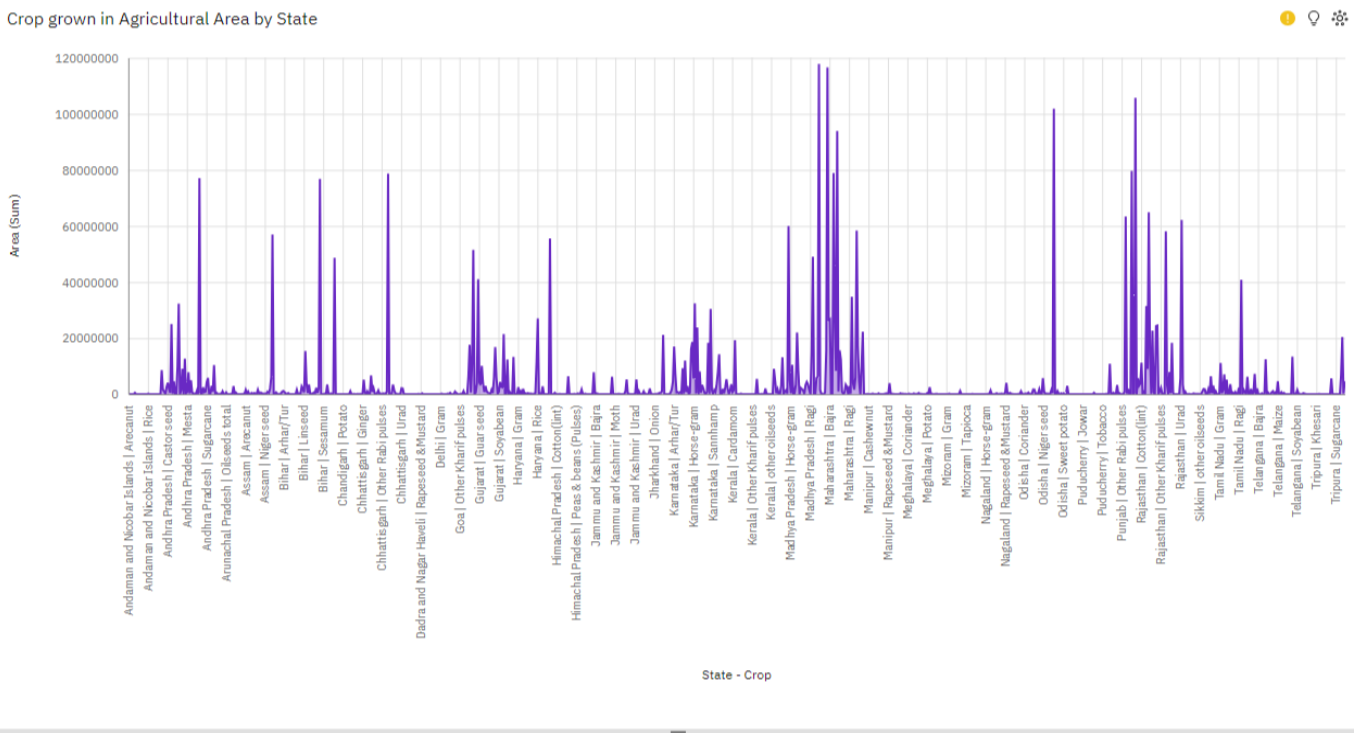- Agricultural Area by state and district:
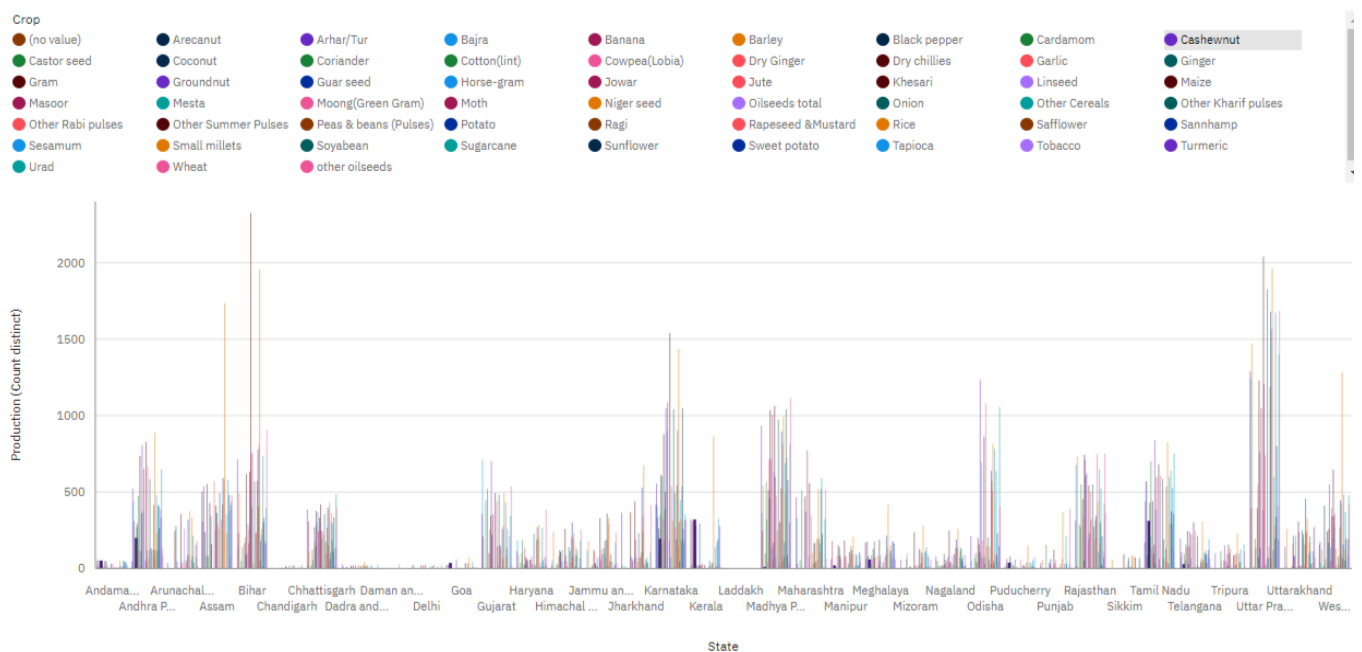

- Crop grown in Agricultural Area by State and district:
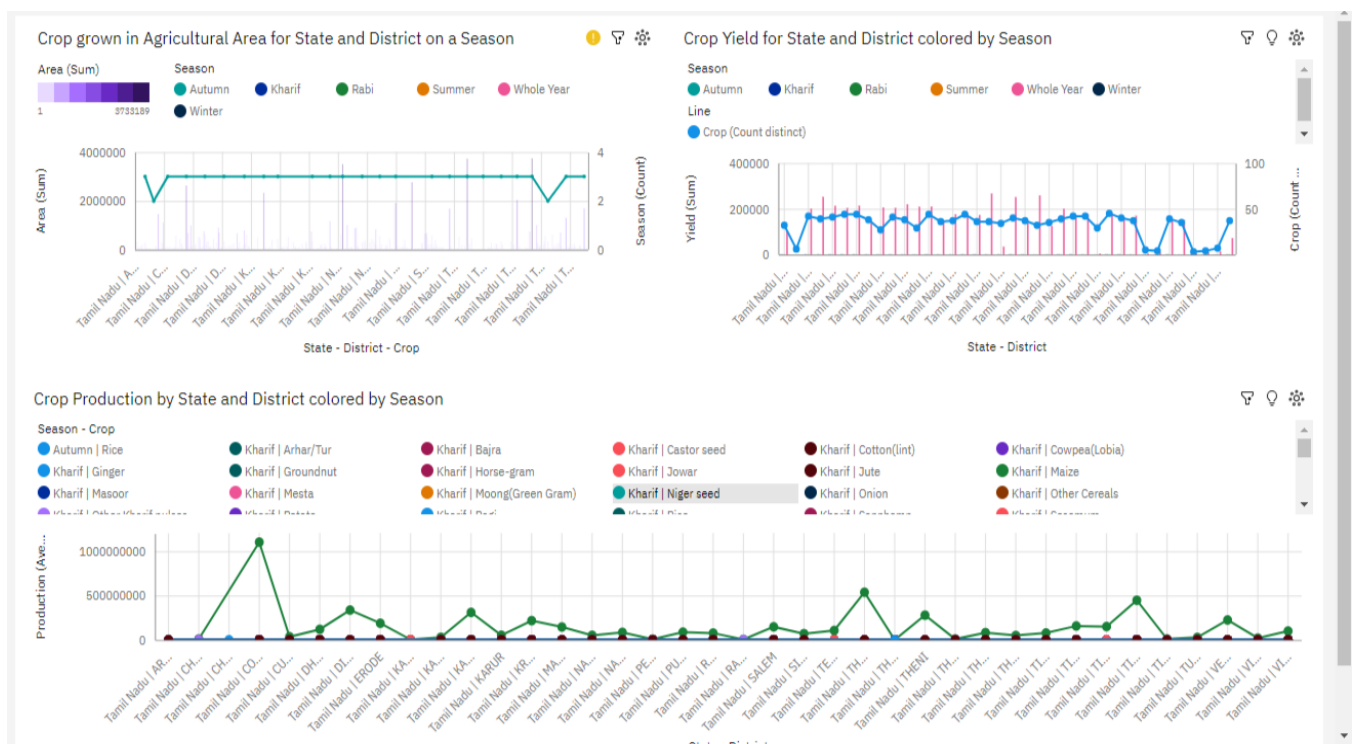
● Crop yield for state:

● Crop prodution by state:

1. DASHBOARD

STATE ANALYSIS:

i)Dashboard 1:

TAMILNADU CROP YIELD AND PRODUCION BY AREA ANALYSIS:

ii)Dashboard 2:

TAMILNADU CROP YIELD AND PRODUCTION ANAYSIS BY SEASON:
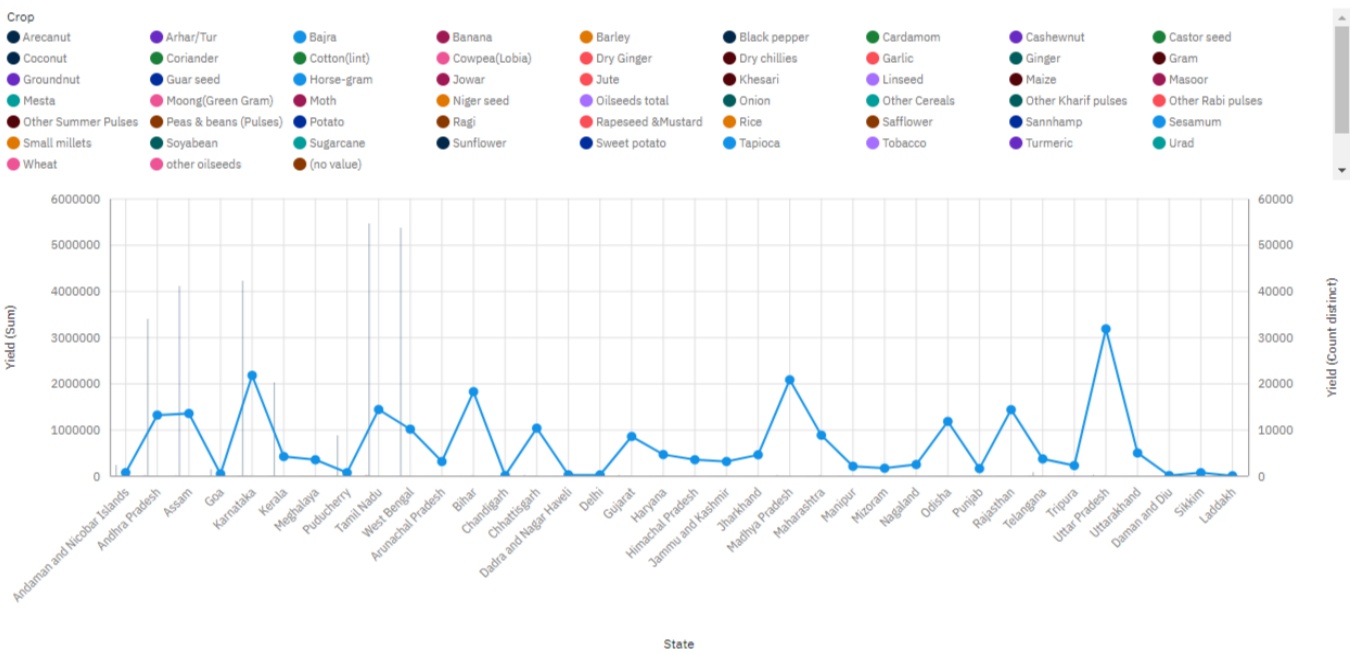
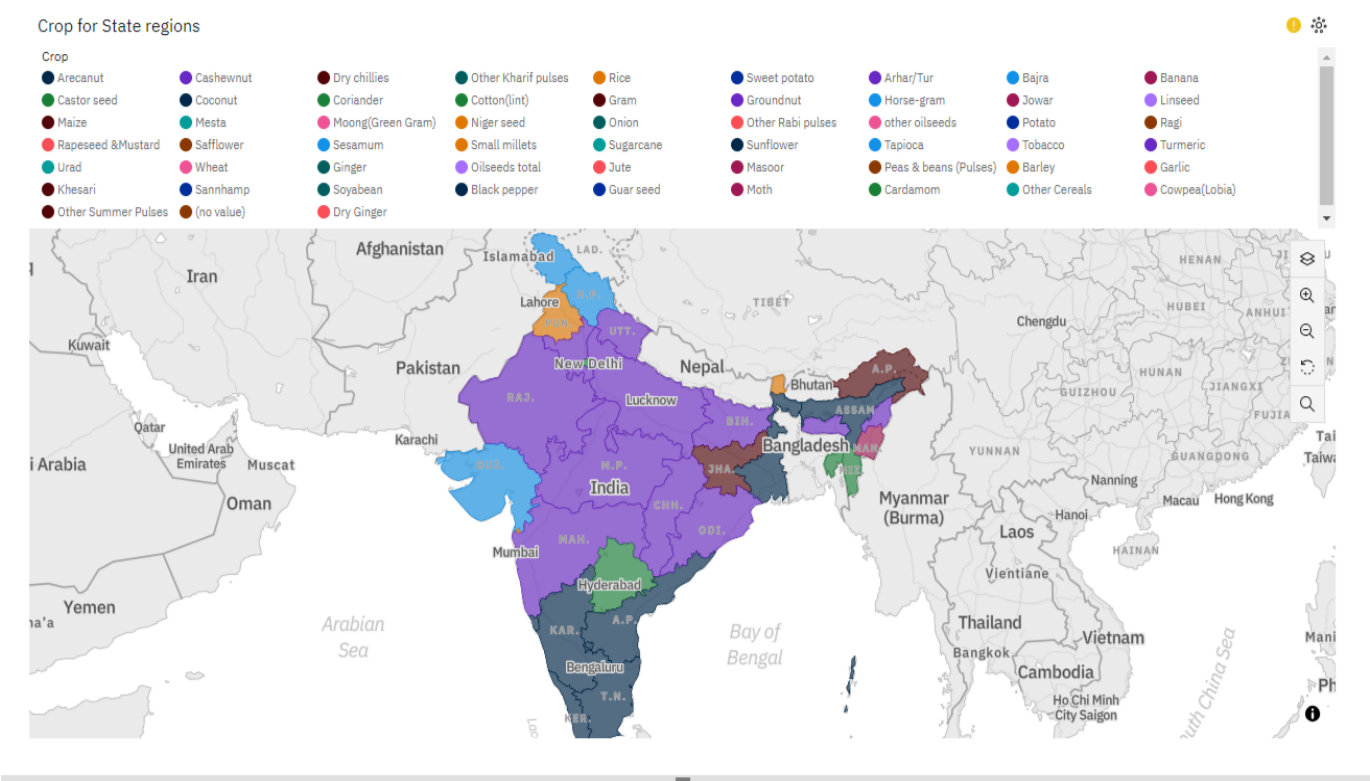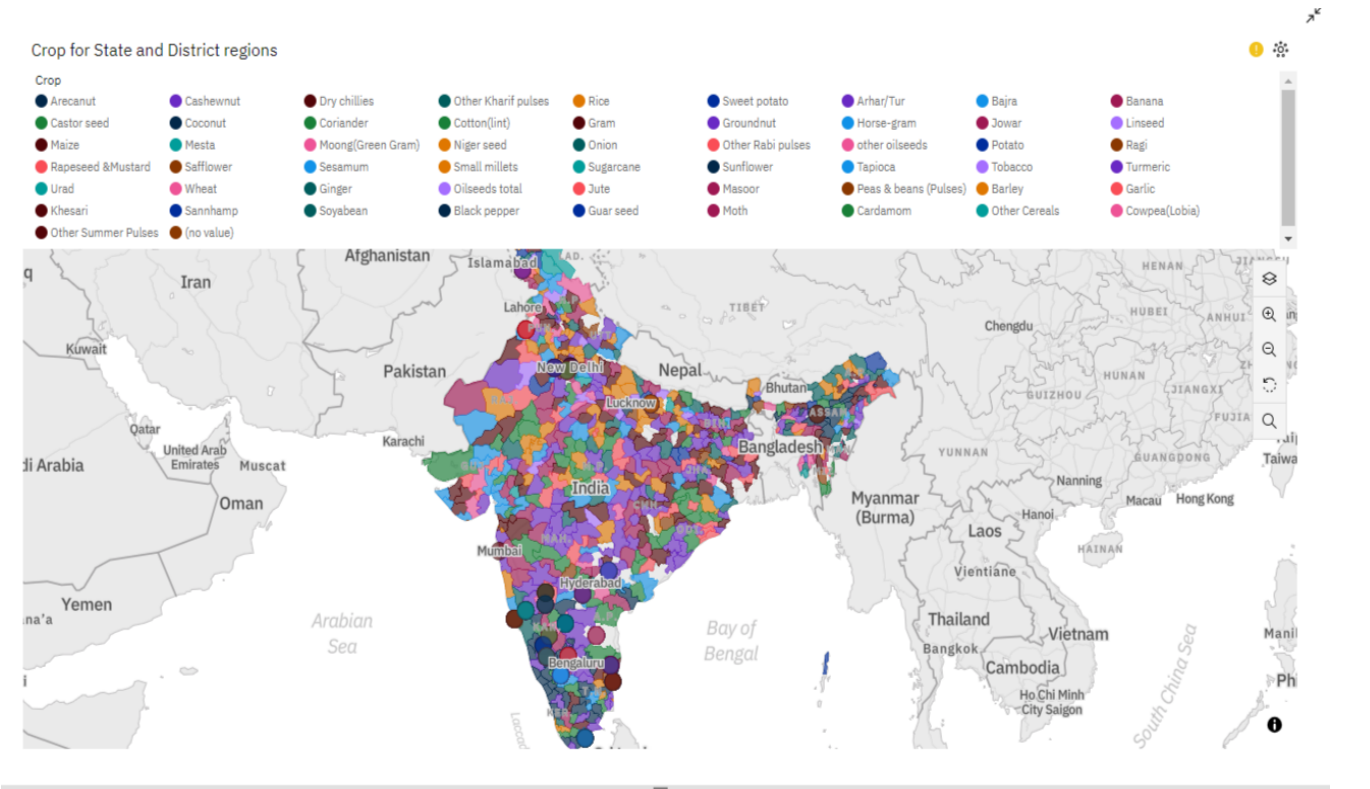## iii)*Dashboard 3:*

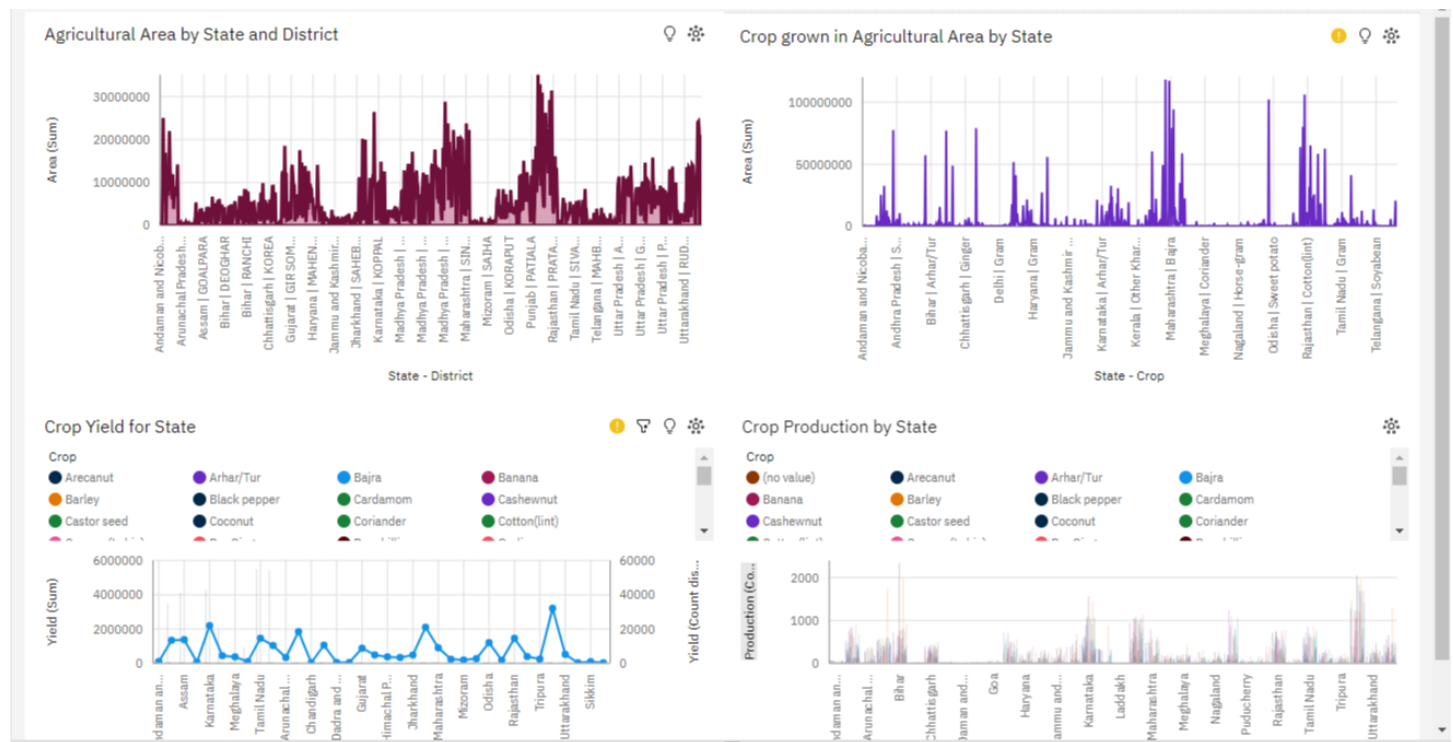### CROP ANALYSIS BY STATES OF INDIA:

iv)*Dashboard 4:*

CROP ANALYSIS BY DISTRICT OF INDIAN STATE:

v)*Dashboard 5*:

INDIA CROP YIELD AND PRODUCTION BY AREA ANALYSIS:

4.STORY

i)web integration

story link:

https://us3.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2FIBM%2BHACK%2BCHALLENGE%2FStory%253A%2BIBM%2BHACK%2BCHALLENGE&action=view&sceneId=model0000018a5675bfec_00000000&sceneTime=0