PROJECT TITTLE

INDIA'S AGRICULTURE CROP PRODUCTION (1997-2022)

NAAN MUDHALVAN PROJECT ID:
NM2023TMID04435

TEAM MEMBERS:

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1. INTRODUCTION

1.1 Overview

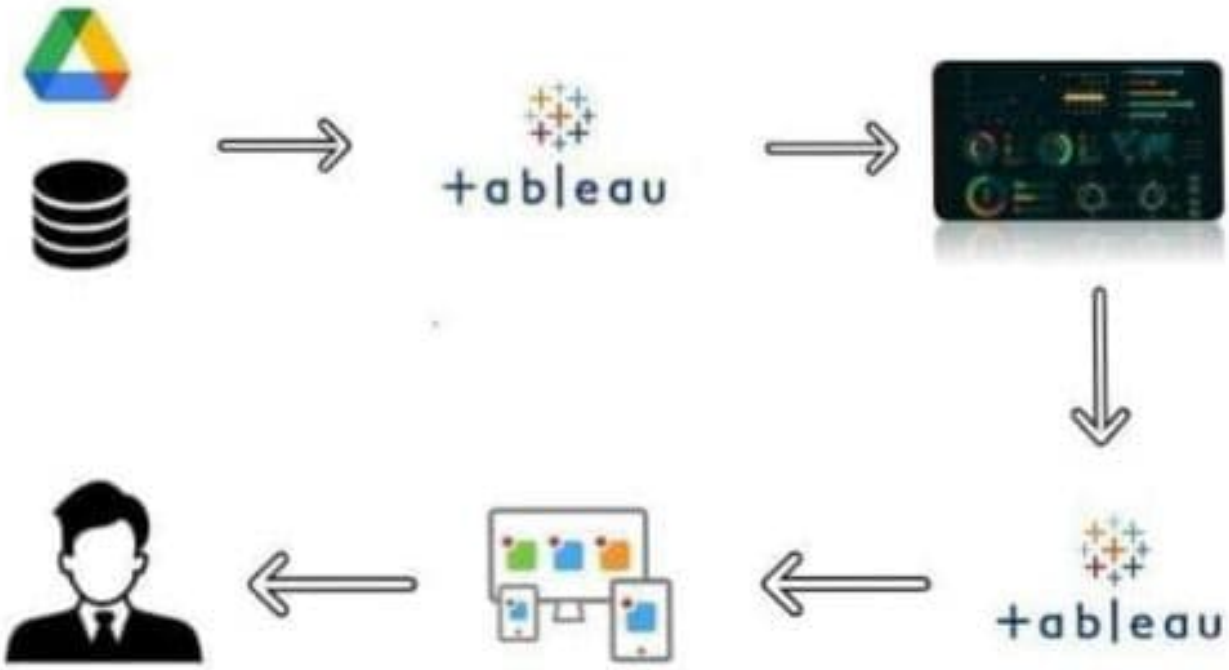
To analyze captivating realm of India's agricultural cultivation, providing a comprehensive visual exploration of key aspects and trends in the agricultural sector. Through the visual representations, readers can gain valuable insights into crop production, seasonal variations, regional distribution, and overall production trends. These visualizations enable intuitive analysis, allowing stakeholders to uncover patterns, identify areas of growth or concern, and make data-driven decisions.

The agriculture sector employs nearly half of the workforce in the country. However, it contributes to 17.5% of the GDP (at current prices in 2015-16).

1.2 Purpose

India' s production of food grains has been increasing every year, and India is among the top producers of several crops such as wheat, rice, pulses, sugarcane and cotton. It is the highest producer of milk and second highest producer of fruits and vegetables. In 2013, India contributed 25% to the world' s pulses production, the highest for any one country, 22% to the rice production and 13% to the wheat production. It also accounted for about 25% of the total quantity of cotton produced, besides being the second highest exporter of cotton for the past several years.

Project Architecture



2. Problem Definition & Design Thinking

The team members ideas are grouped by Empathy Map and Ideation & Brainstorming Map using app. mural.co

Here we done the following

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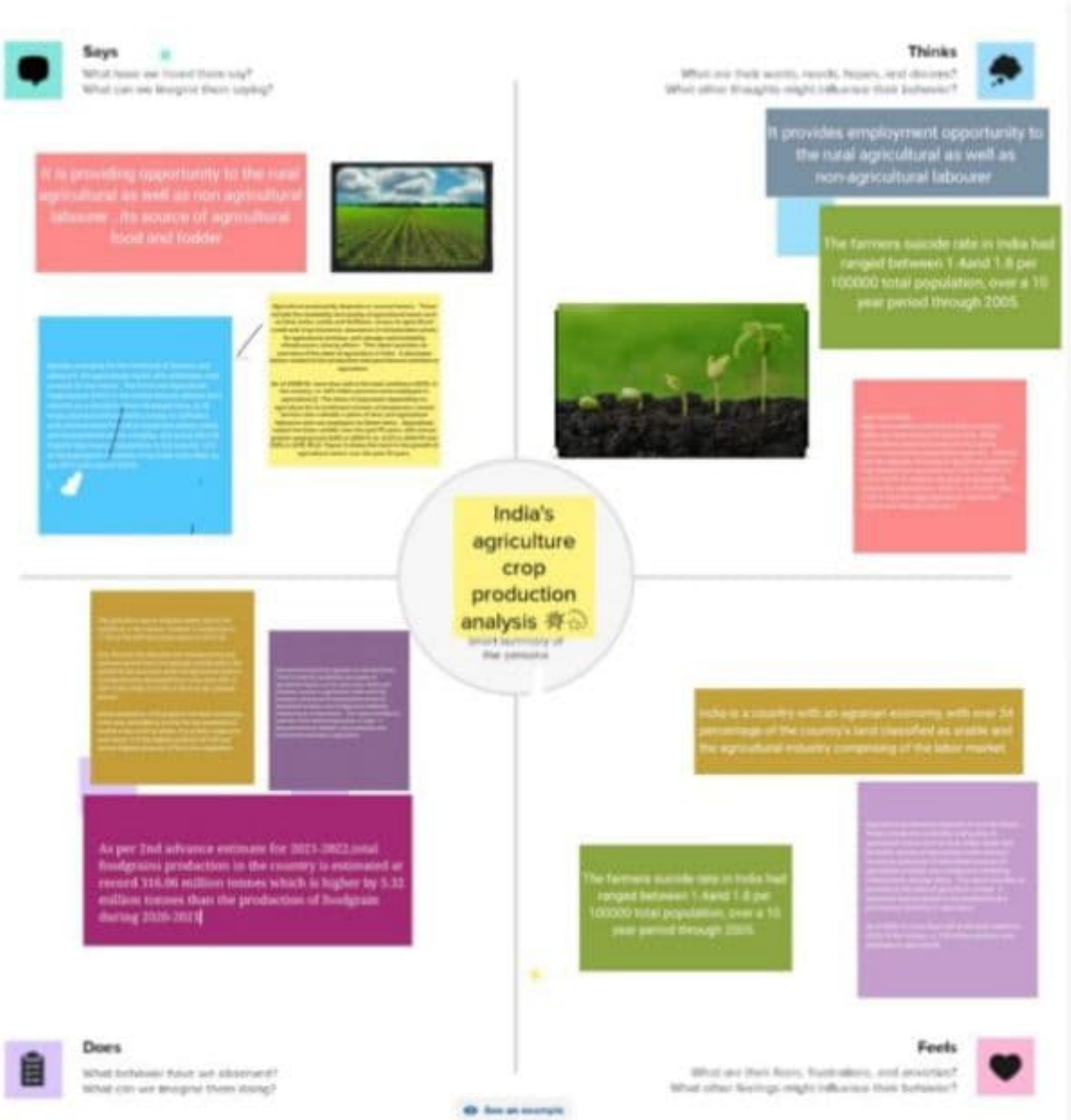
Here we done the following

- Defining the problem
- Problem understanding
- Specification of the business problem



BRAINSTORM

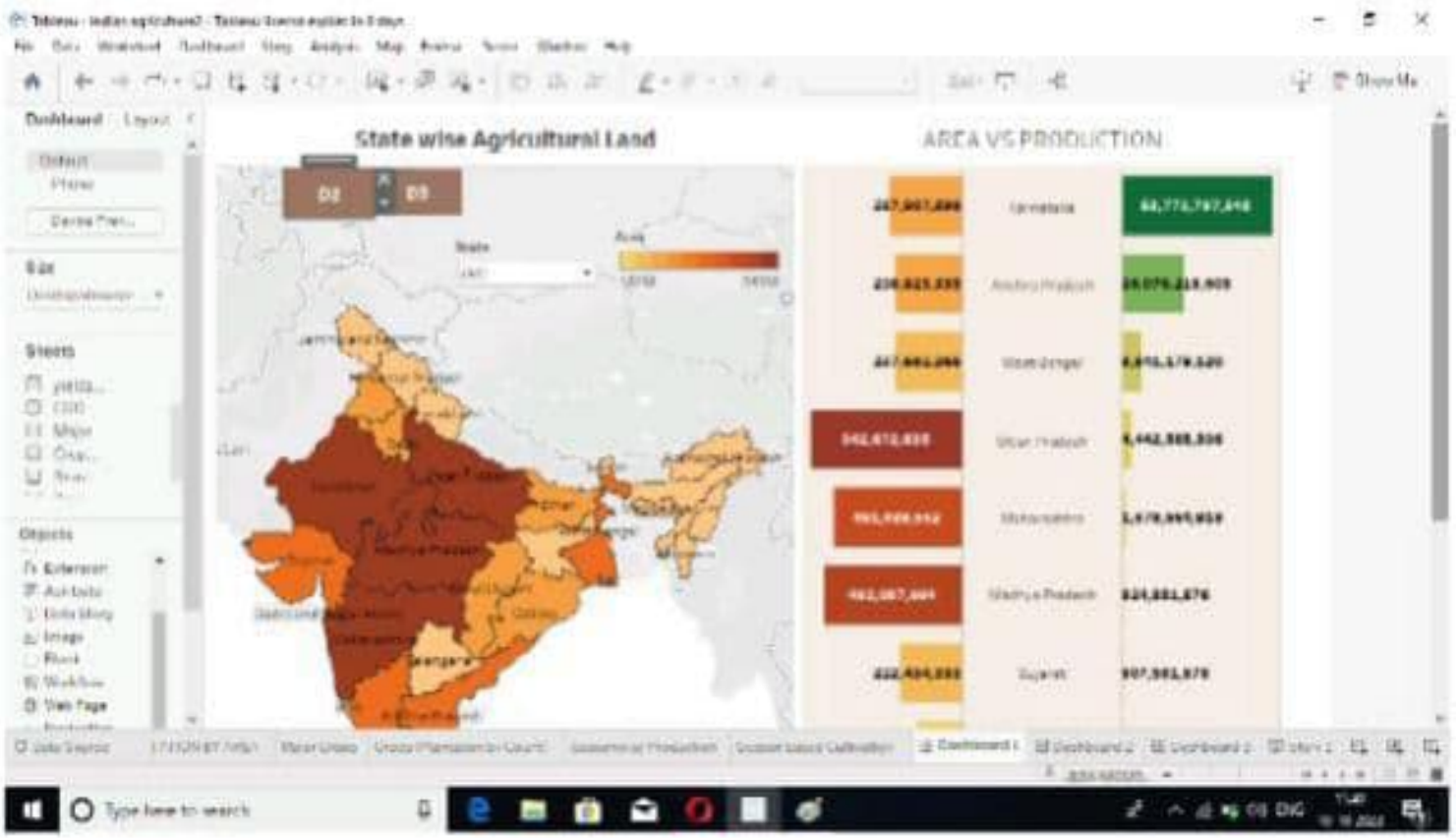
3. **RESULT**

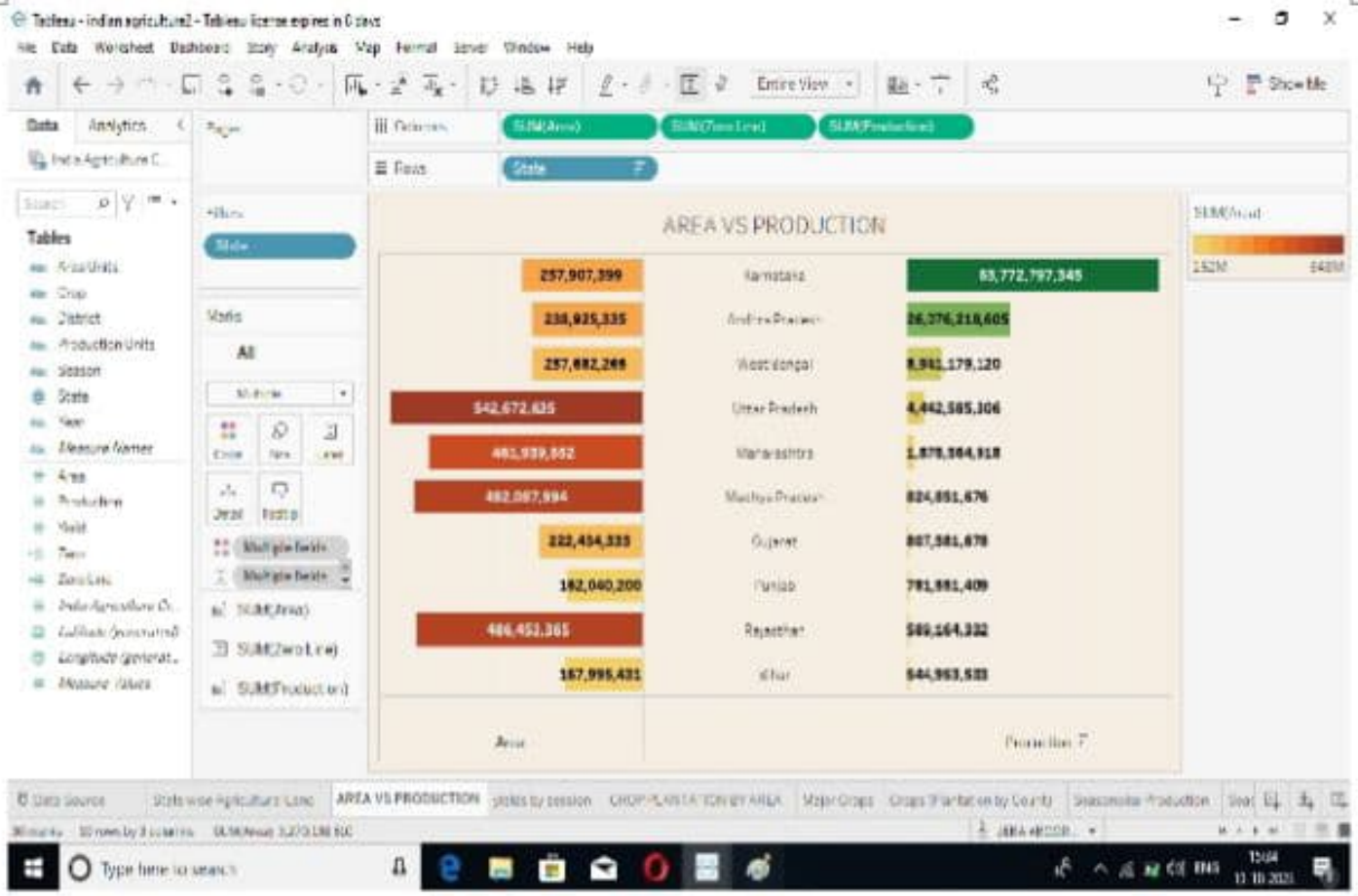
One of the main advantages of Tableau is its easy to use. We don't need to have any coding or programming skills to create stunning and informative dashboards, charts, maps, and stories with Tableau. You can simply drag and drop data sources, fields, filters, and visual elements to customize your views and analysis. Once you have created views on different sheets in Tableau, you can pull them into a dashboard.

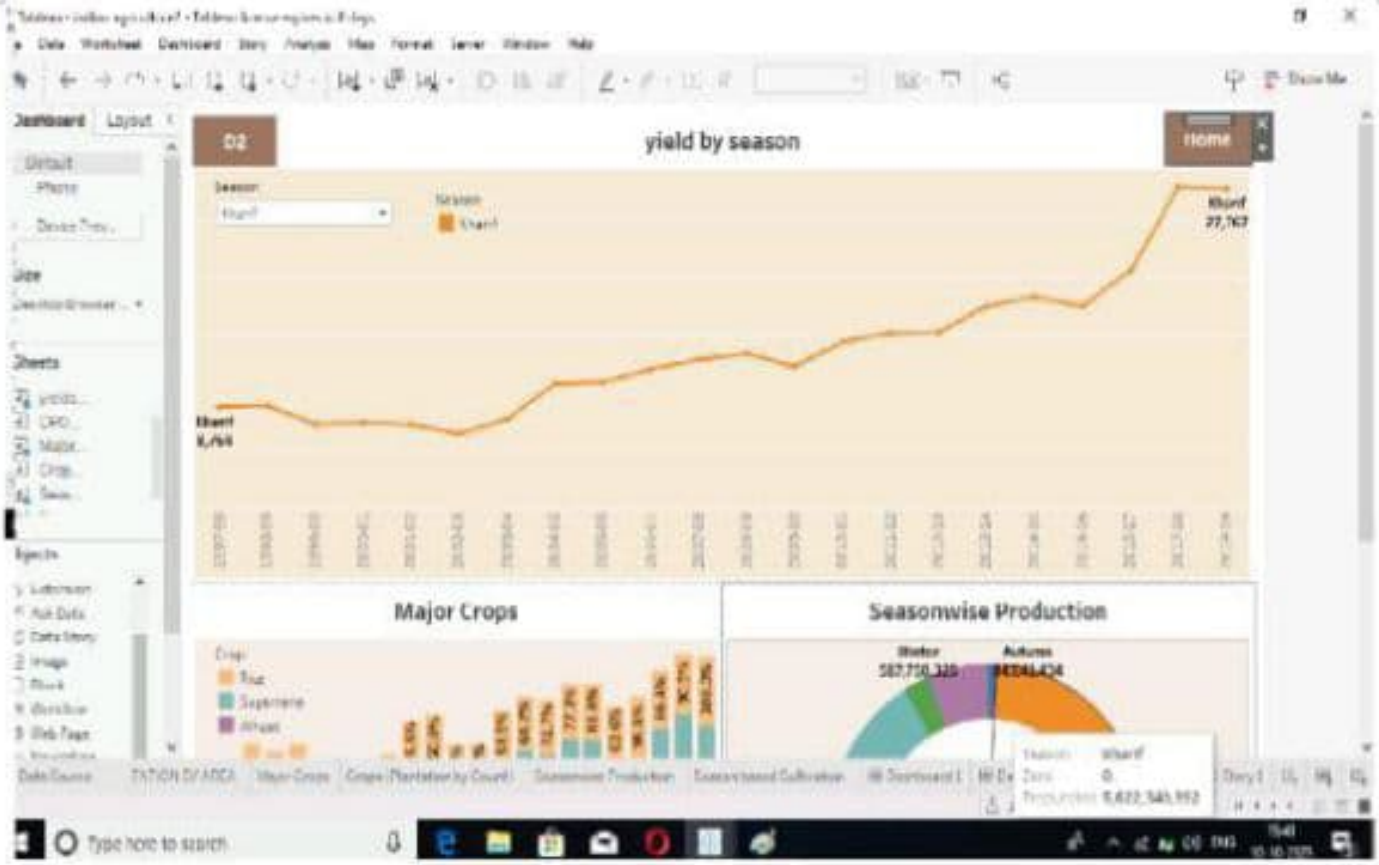
These are screenshots of our project work

1. **Screenshots of Sheets**

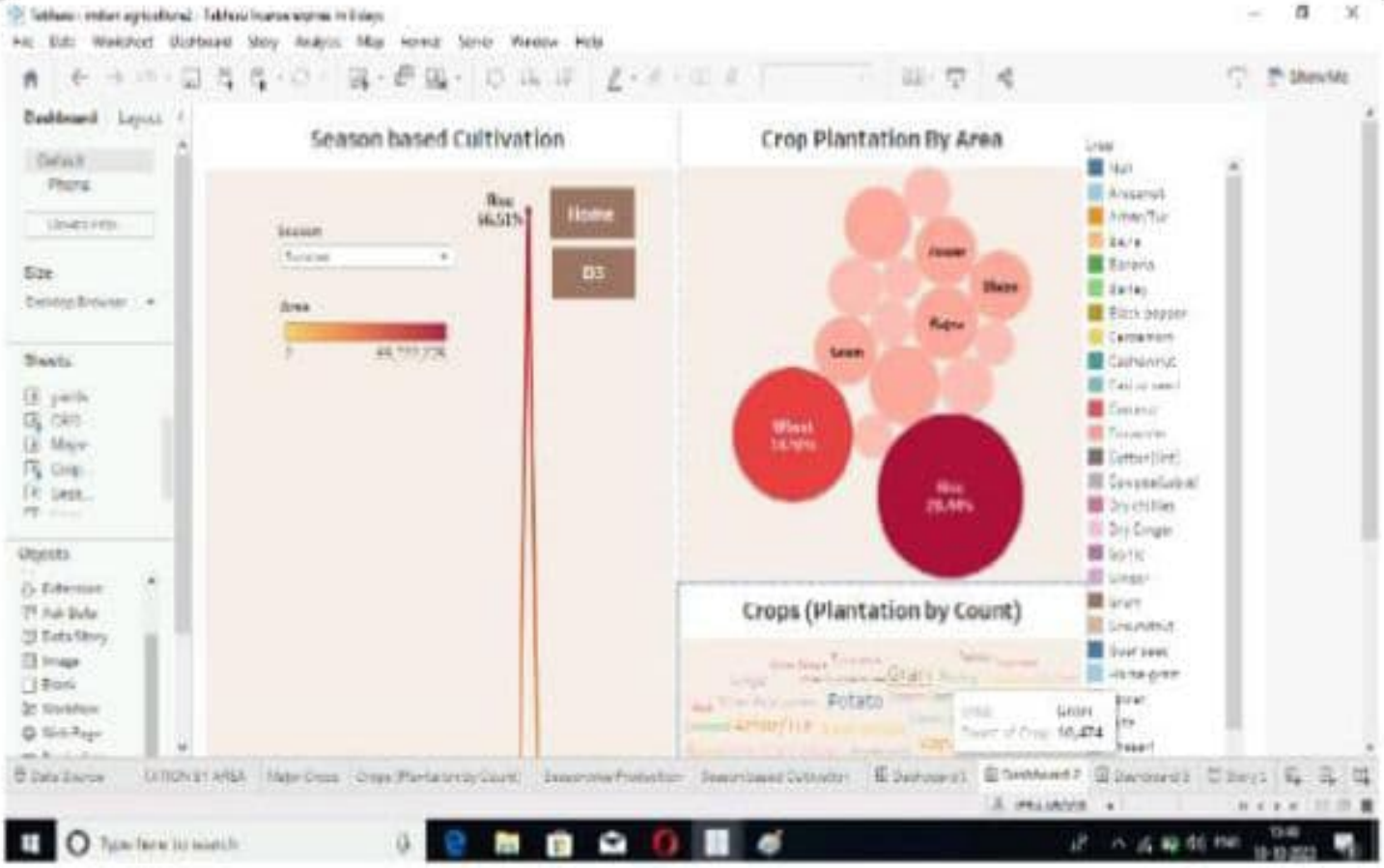
II) Screenshots of Dashboards

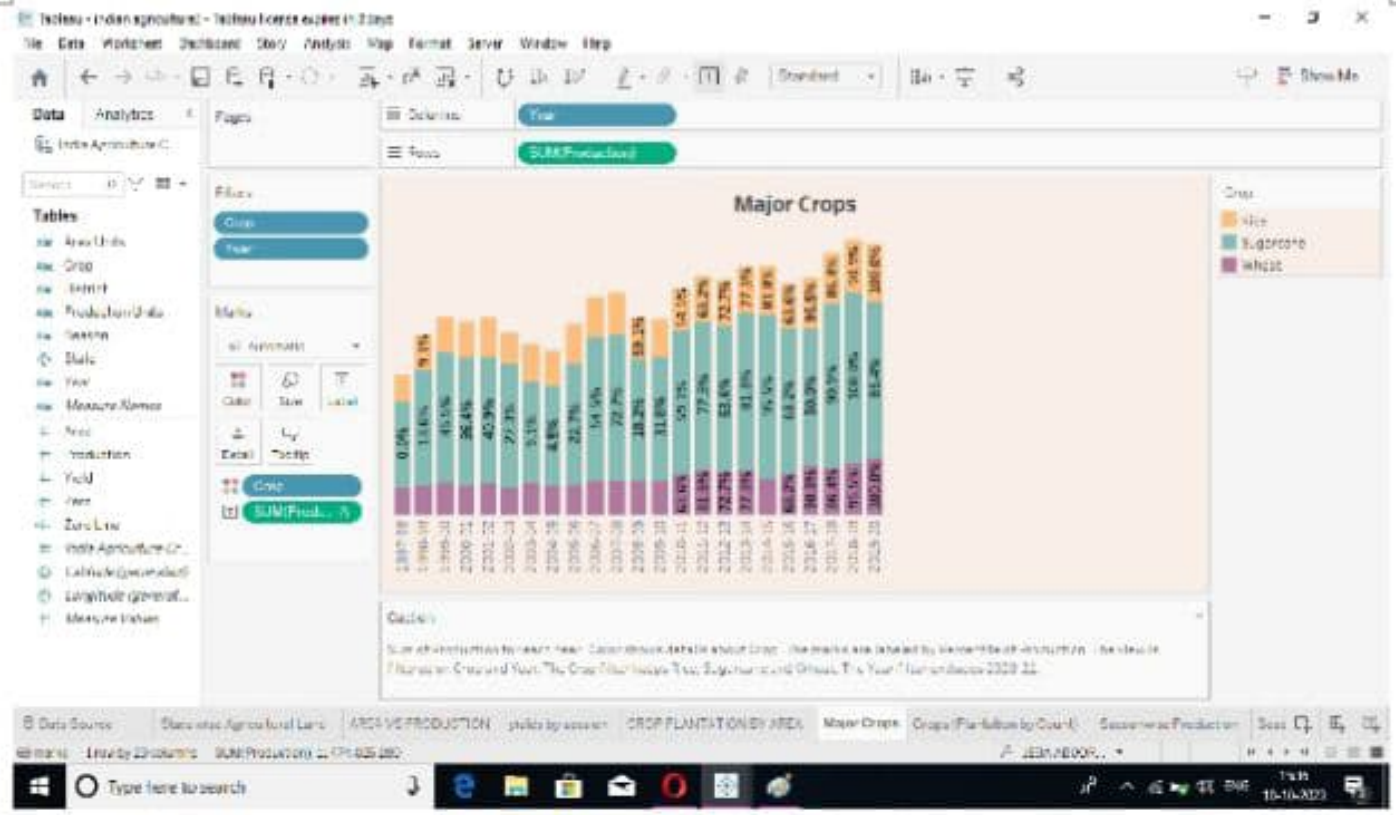


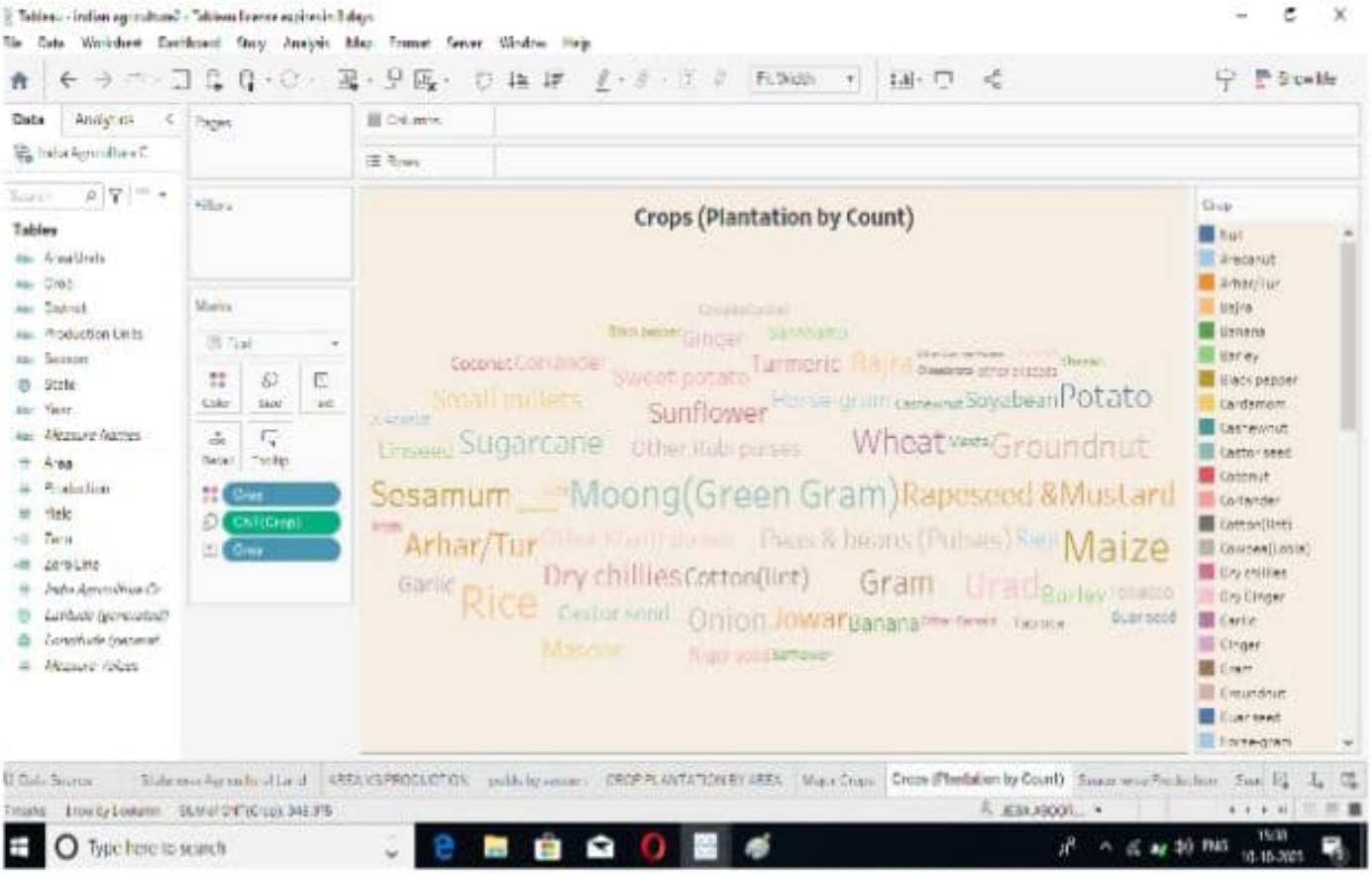

AREA VS PRODUCTION
257,907,399
Karnataka
83,772,797,345
42,672,625
4,442,585,306
482,087,994
824,851,676
222,454,333
807,581,678
182,040,200
781,981,409
486,452,365
589,164,332
167,995,435
644,963,533
Area
Production

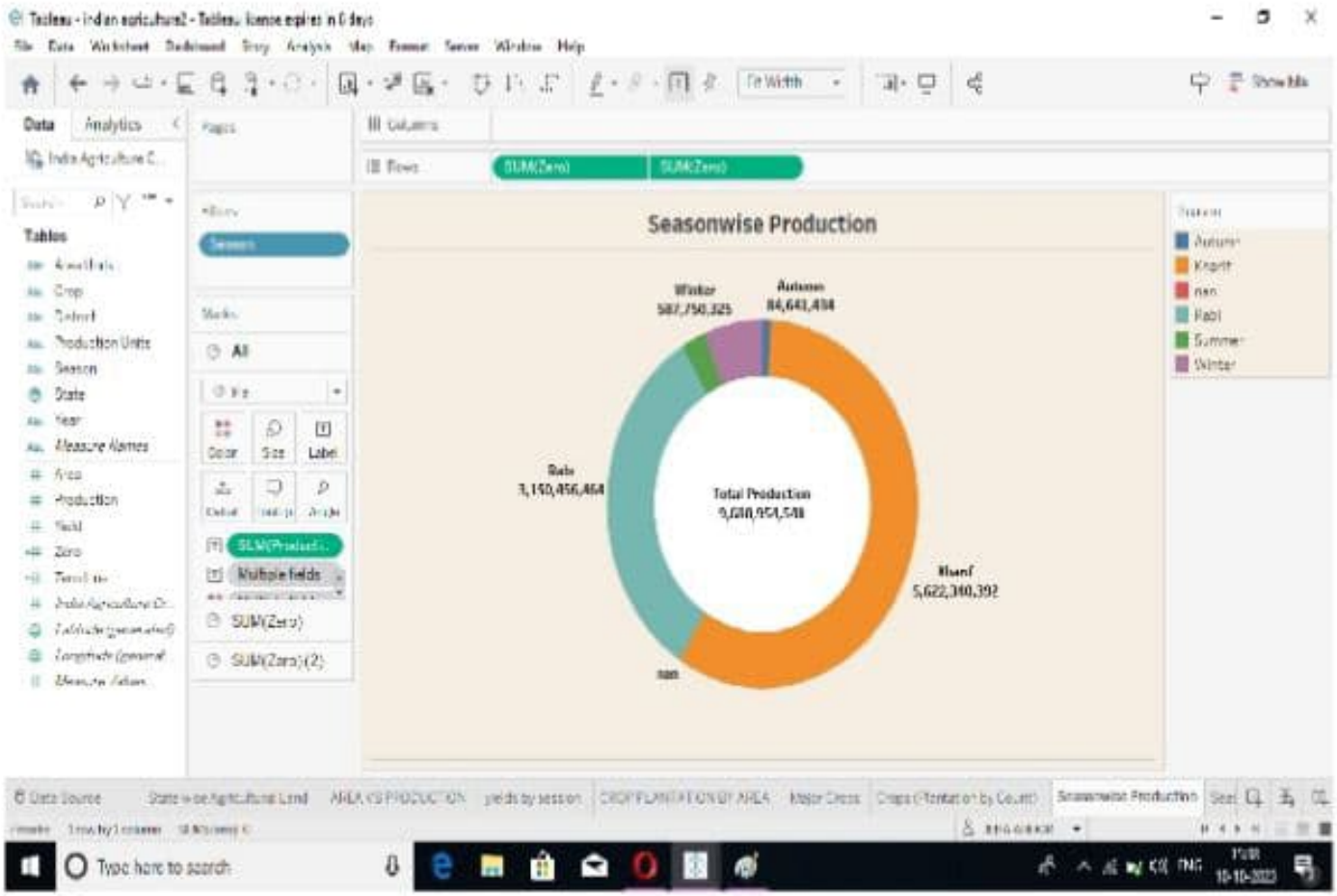


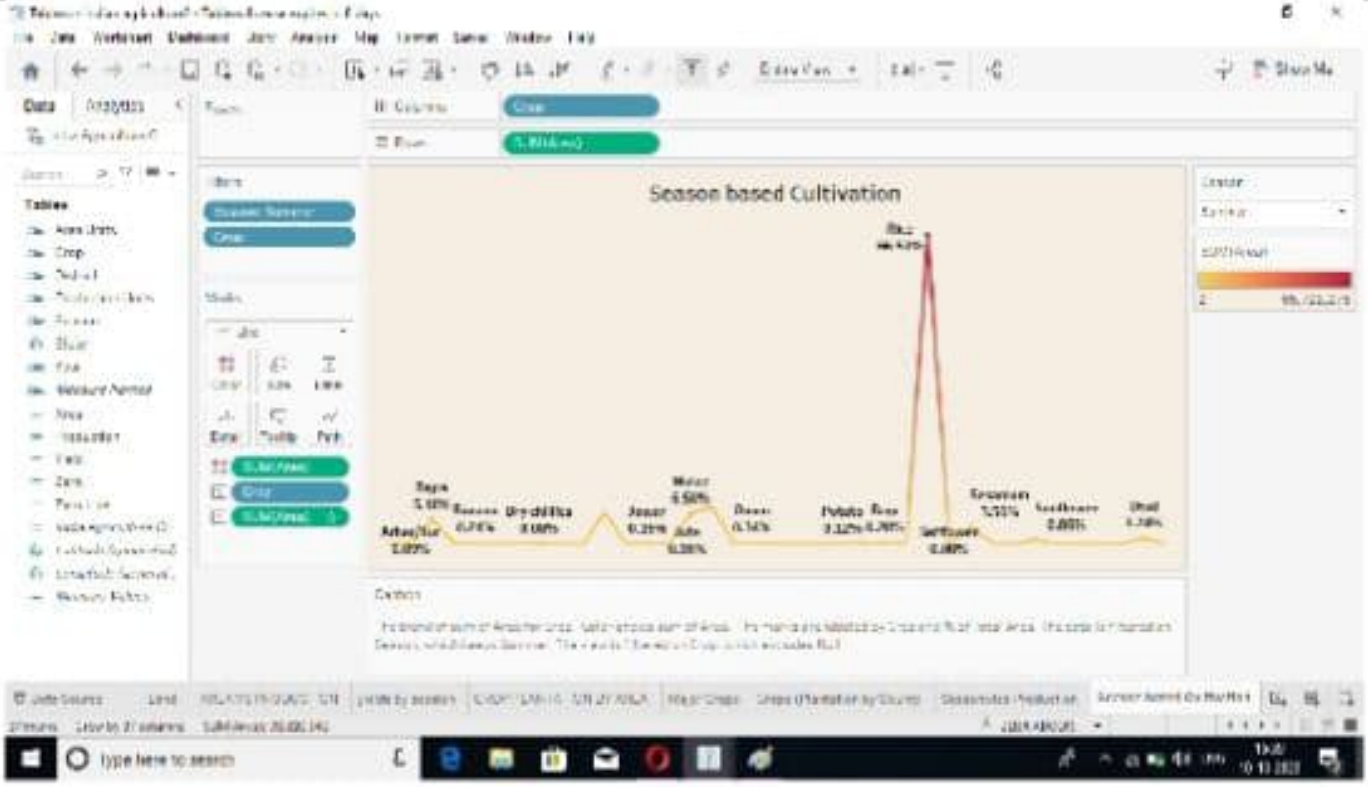
III) Screenshots of Stories


Season based Cultivation
Crop Plantation By Area
Crops (Plantation by Count)
Potato

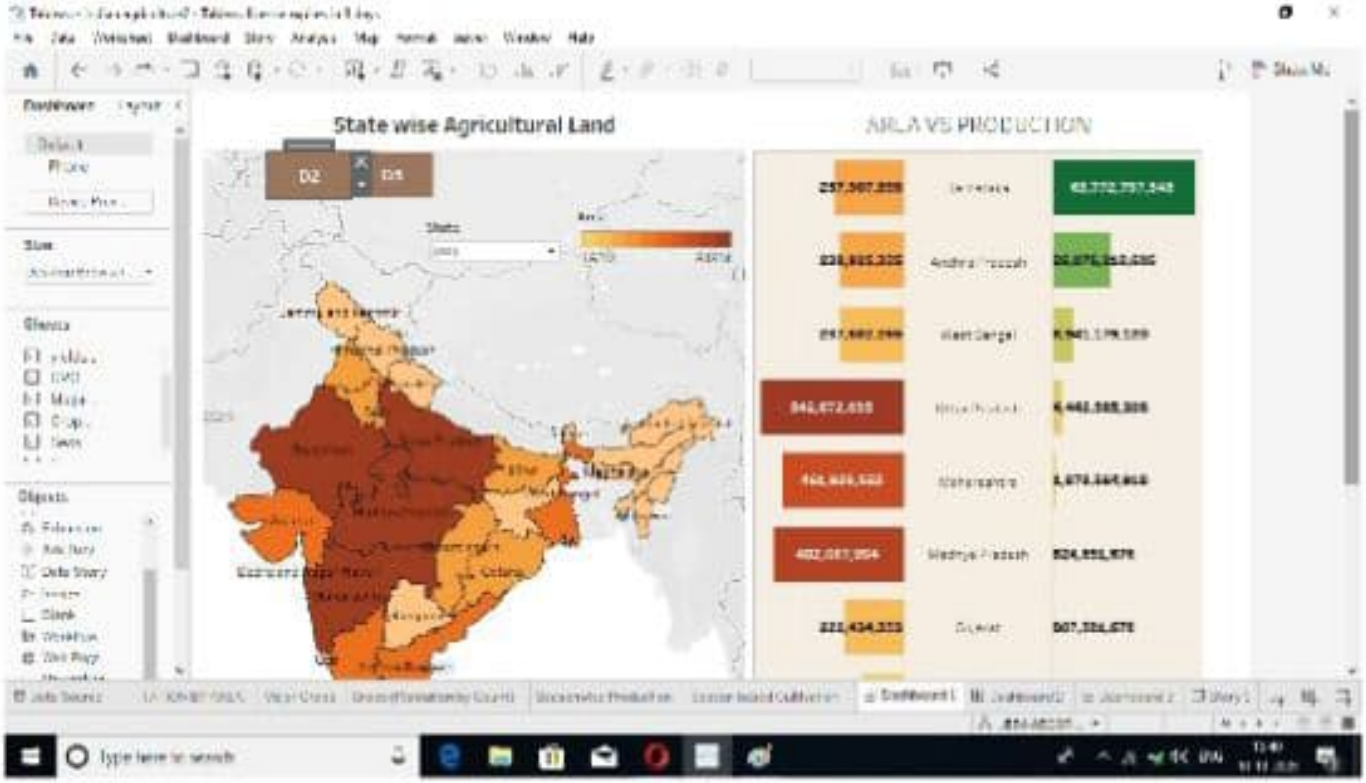

Major Crops
Data
Analytics
Tables
Pages
Filters
Marks
Crop
Year
SUM(Production)
Rice
Sugarcane
Wheat

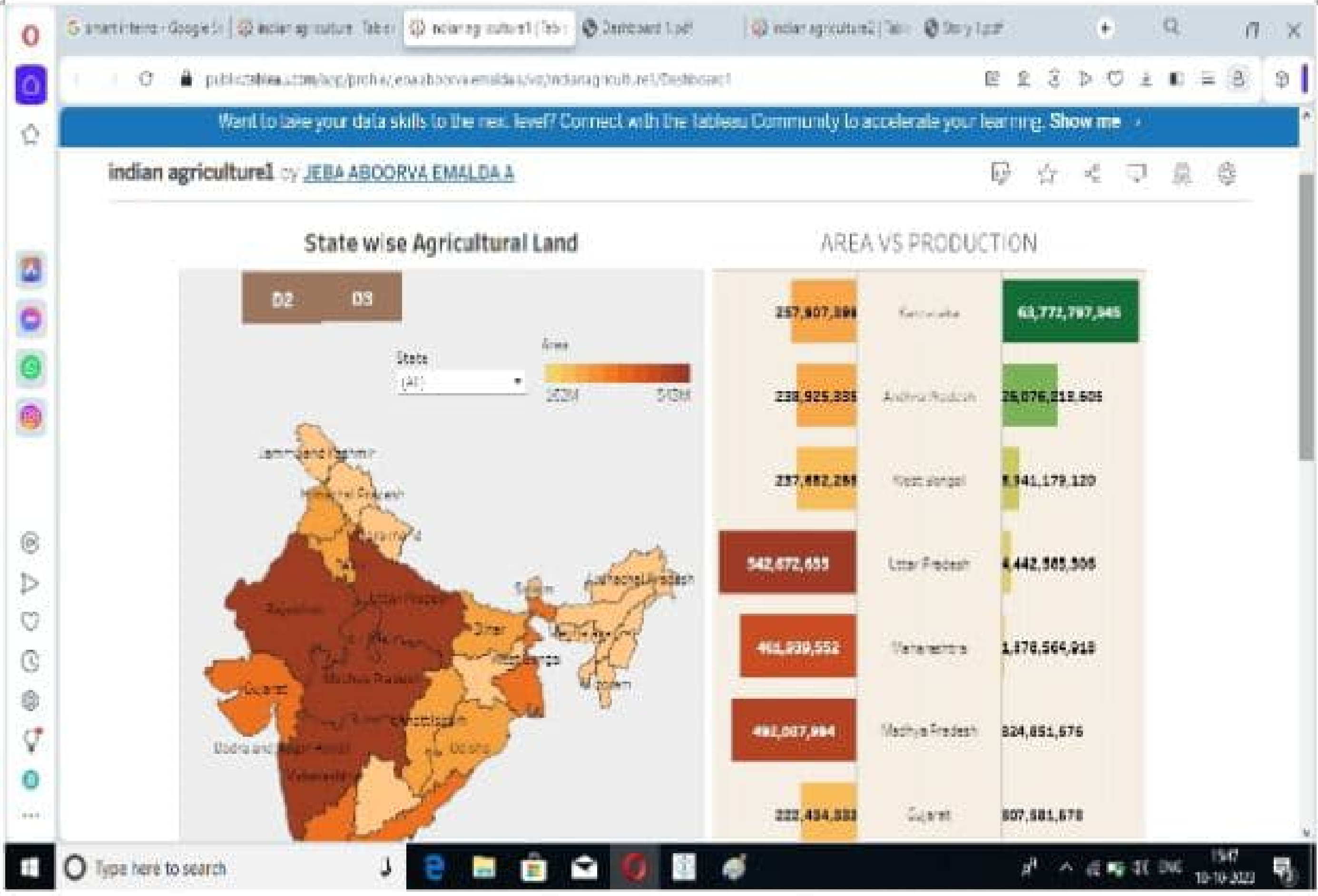

Crops (Plantation by Count)
Data
Analytics
Tables
Pages
Filters
Marks
Crop
CNT(Crop)
Sesamum
Moong(Green Gram)
Rapeseed &Mustard
Arhar/Tur
Maize
Dry chillies
Cotton(lint)
Gram
Rice
Onion
Jowar
Potato
Sunflower
Wheat
Groundnut
Sugarcane
Turmeric
Sweet potato
Coconut
Ginger
Banana
Barley
Black pepper
Cardamom
Cashewnut
Castor seed
Coconut
Coriander
Cotton(lint)
Dry chillies
Dry Ginger
Garlic
Ginger
Gram
Groundnut
Guar seed


Seasonwise Production
Winter
587,750,325
Autumn
84,641,434
Rabi
3,150,456,464
Total Production
9,038,951,548
Kharif
5,622,340,392
nan
Autumn
Kharif
nan
Rabi
Summer
Winter



II) Screenshots of Dashboards





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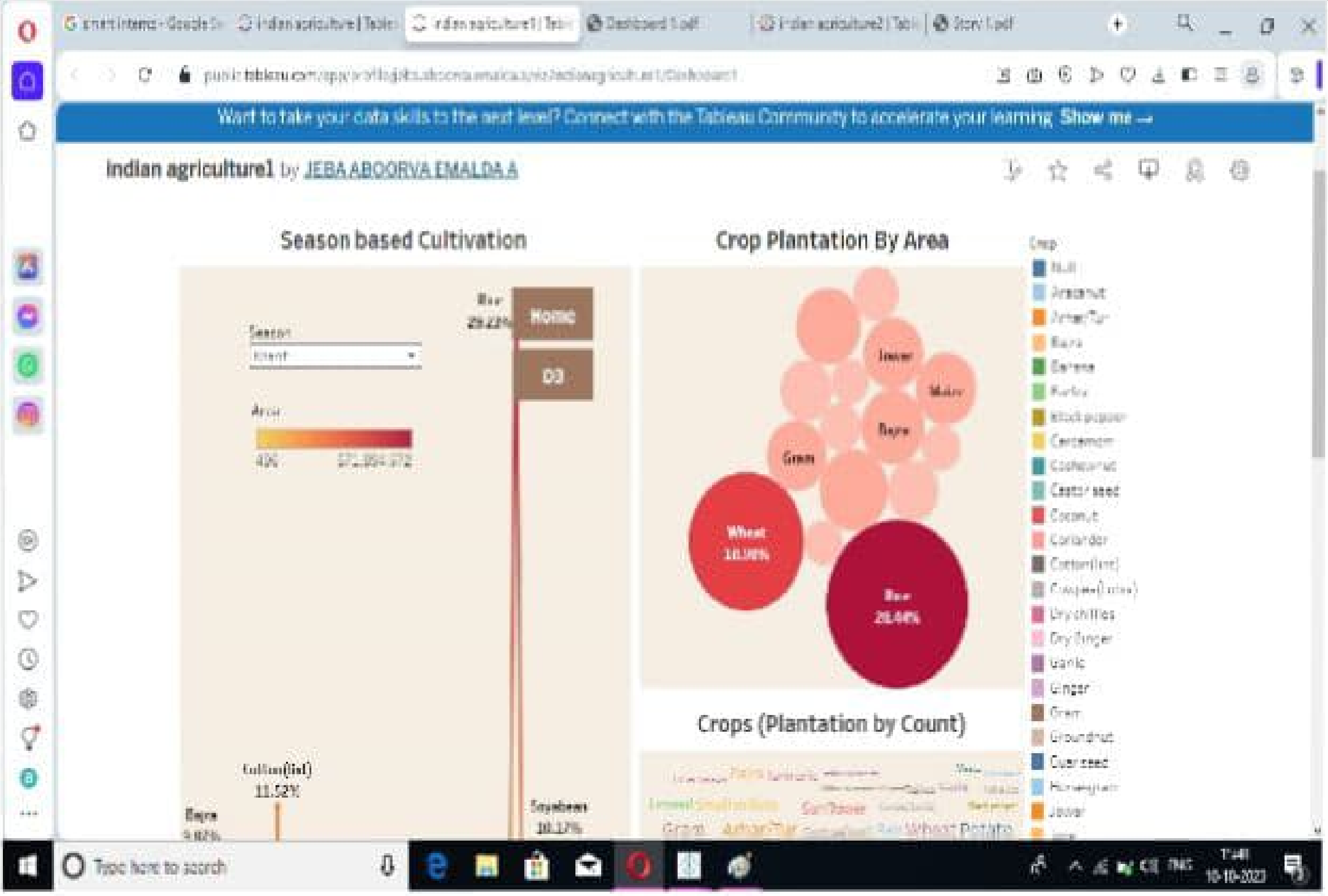
indian agriculture1 by JEBA ABOORVA EMALDA A
State wise Agricultural Land
AREA VS PRODUCTION
D2
D3
State
Area
Jammu and Kashmir
Rajasthan
Uttar Pradesh
Madhya Pradesh
Gujarat
Maharashtra
Bihar
Odisha
Sikkim
Arunachal Pradesh
Karnataka
Andhra Pradesh
West Bengal
Uttar Pradesh
Maharashtra
Madhya Pradesh
Gujarat
542,672,655
Type here to search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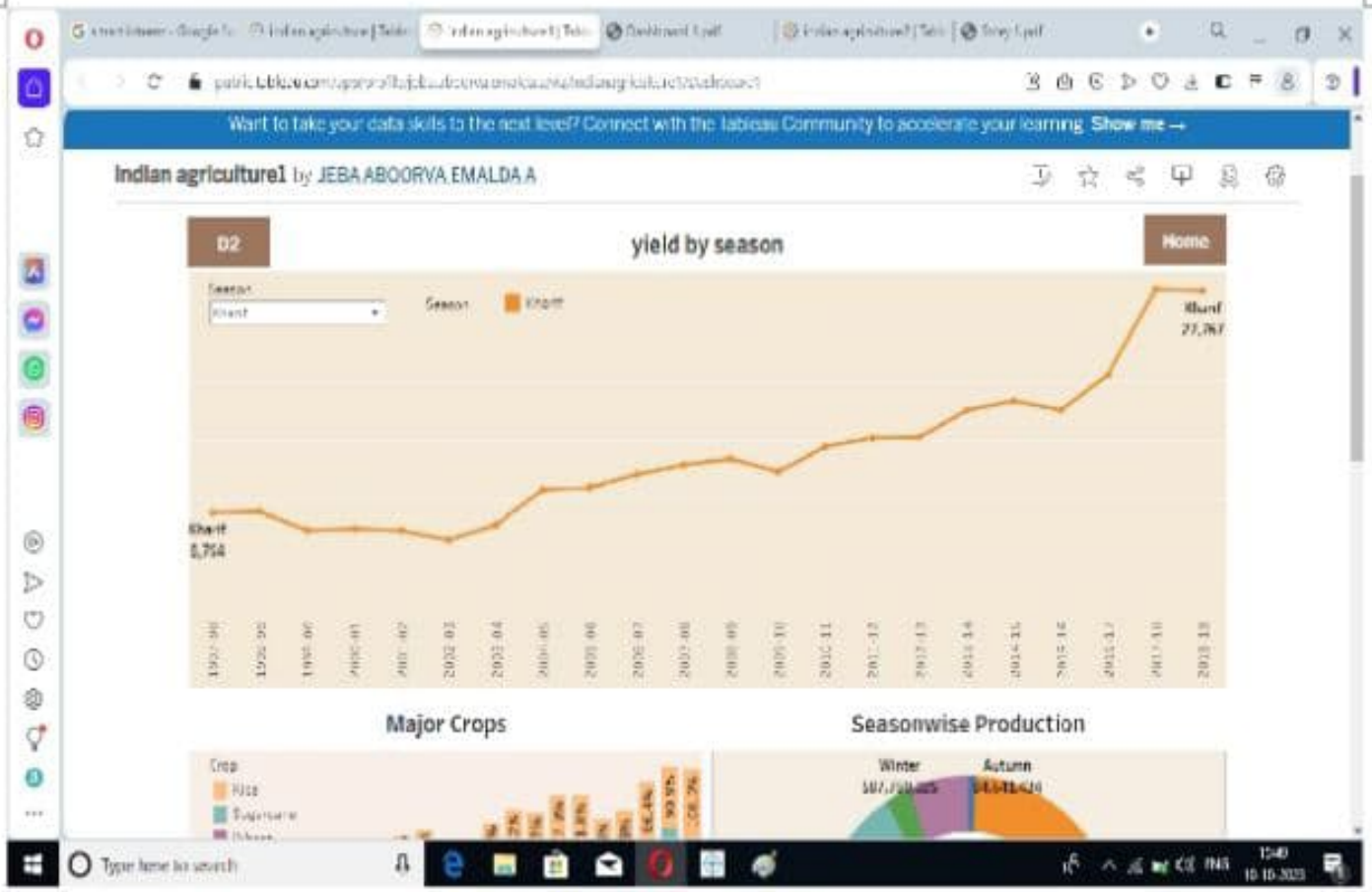
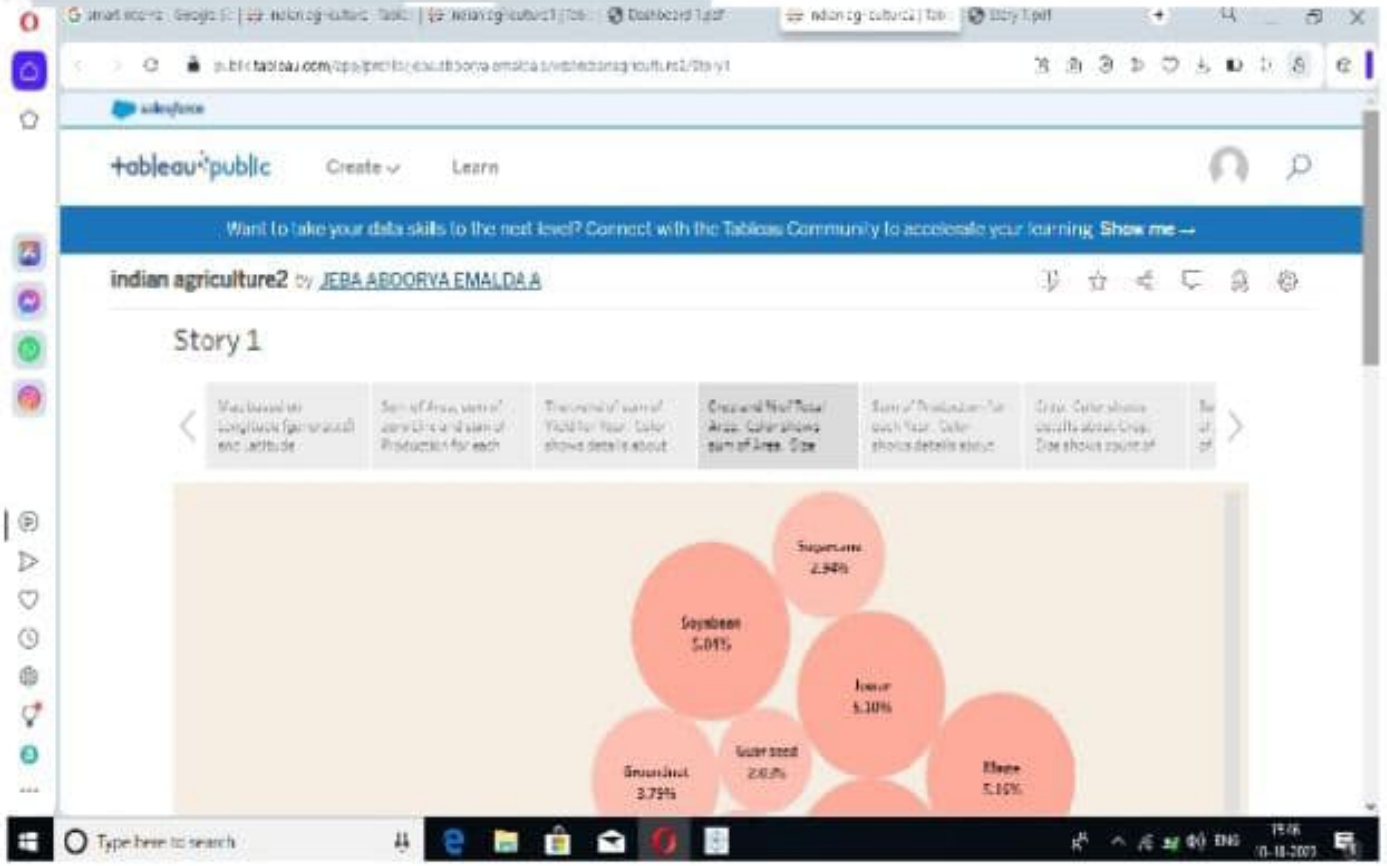
Indian agriculture1 by JEBA ABOORVA EMALDA A
Season based Cultivation
Crop Plantation By Area
Crops (Plantation by Count)
Wheat
Rice
Gram
Jowar
Bajra
Soyabean
Cotton(lint)
11.52%
Crop
Arecanut
Arhar/Tur
Banana
Barley
Black pepper
Cardamom
Cashewnut
Castor seed
Coconut
Coriander
Cotton(lint)
Dry chillies
Dry ginger
Garlic
Ginger
Gram
Groundnut
Jowar
Type here to search
10-10-2023


Want to take your data skills to the next level? Connect with the tableau Community to accelerate your learning. Show me →
Indian agriculture1 by JEBA ABOORVA EMALDA A
D2
yield by season
Home
Season
Kharif
Major Crops
Seasonwise Production
Winter
Autumn


+ableau public
Create
Learn
Want to take your data skills to the next level? Connect with the Tableau Community to accelerate your learning. Show me →
indian agriculture2 by JEBA ABOORVA EMALDA A
Story 1
Soybean
5.01%
Sugarcane
2.94%
Cotton
5.10%
Rice
5.10%
Groundnut
3.79%

4. ADVANTAGES & DISADVANTAGES

1. This visualization is very easier to analyse the data of Indian Agricultural Crop Production Analysis(1997-2021).
2. To increase crop production, to estimate planting insurance, and improving trade benefits.
3. This web-based agri solution will help farmers to take smart farming decision by resource optimization and smart planning.
4. To identify the Crop Diseases and to take necessary actions.

5. APPLICATIONS

1 Mobile-Friendly
2.Informative Dashboards
3.Advanced Visualization Capabilities
4.Availability of Maps. And so on.

6. CONCLUSION

India's production of food grains has been increasing every year, and India is among the top producers of several crops such as wheat, rice, pulses, sugarcane and cotton. It is the highest producer of milk and second highest producer of fruits and vegetables. In 2013, India contributed 25% to the world's pulses production, the highest for any one country, 22% to the rice production and 13% to the wheat production. It also accounted for about 25% of the total quantity of cotton produced, besides being the second highest exporter of cotton for the past several years.