

India's Agricultural Crop Production Analysis(1997-2021)

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Team Members

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Introduction

Agriculture is an evolutionary process that consists of a series of activities such as the production of food, fibers, feed, and raising of domesticated animals to fulfill the demand of the population.

Agriculture is a key to development in the area of human civilization.

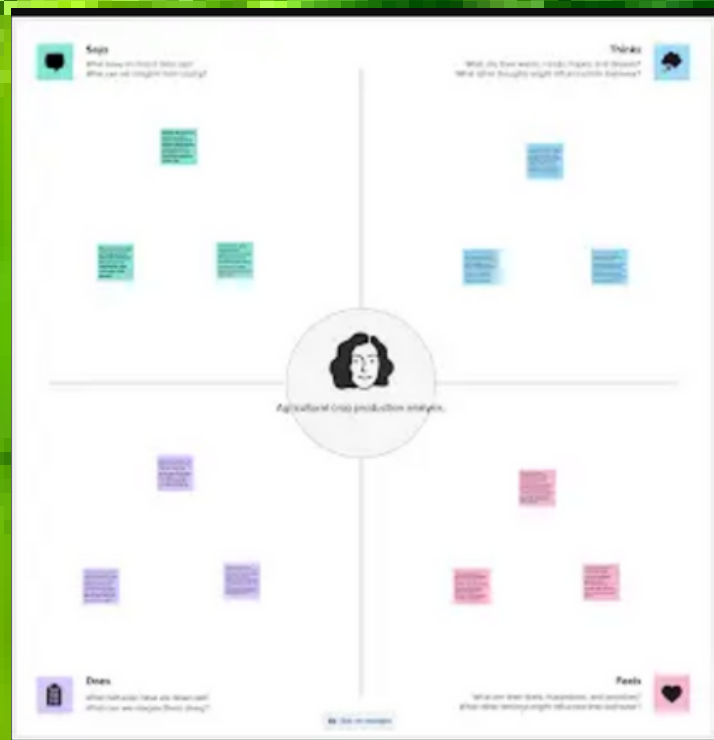
**In this project, we can analyse the
India's agricultural crop production
(1997-2021)**

Problem Definition & Design Thinking

One of the major farmers problems has to be the loss of agricultural land, as when more land is lost, it becomes increasingly difficult to produce the right volume of food required to feed the entire population

Design thinking can be used to identify opportunities for innovation in regenerative farming practices, such as using cover crops to improve soil health or integrating livestock into crop rotations to improve nutrient cycling.

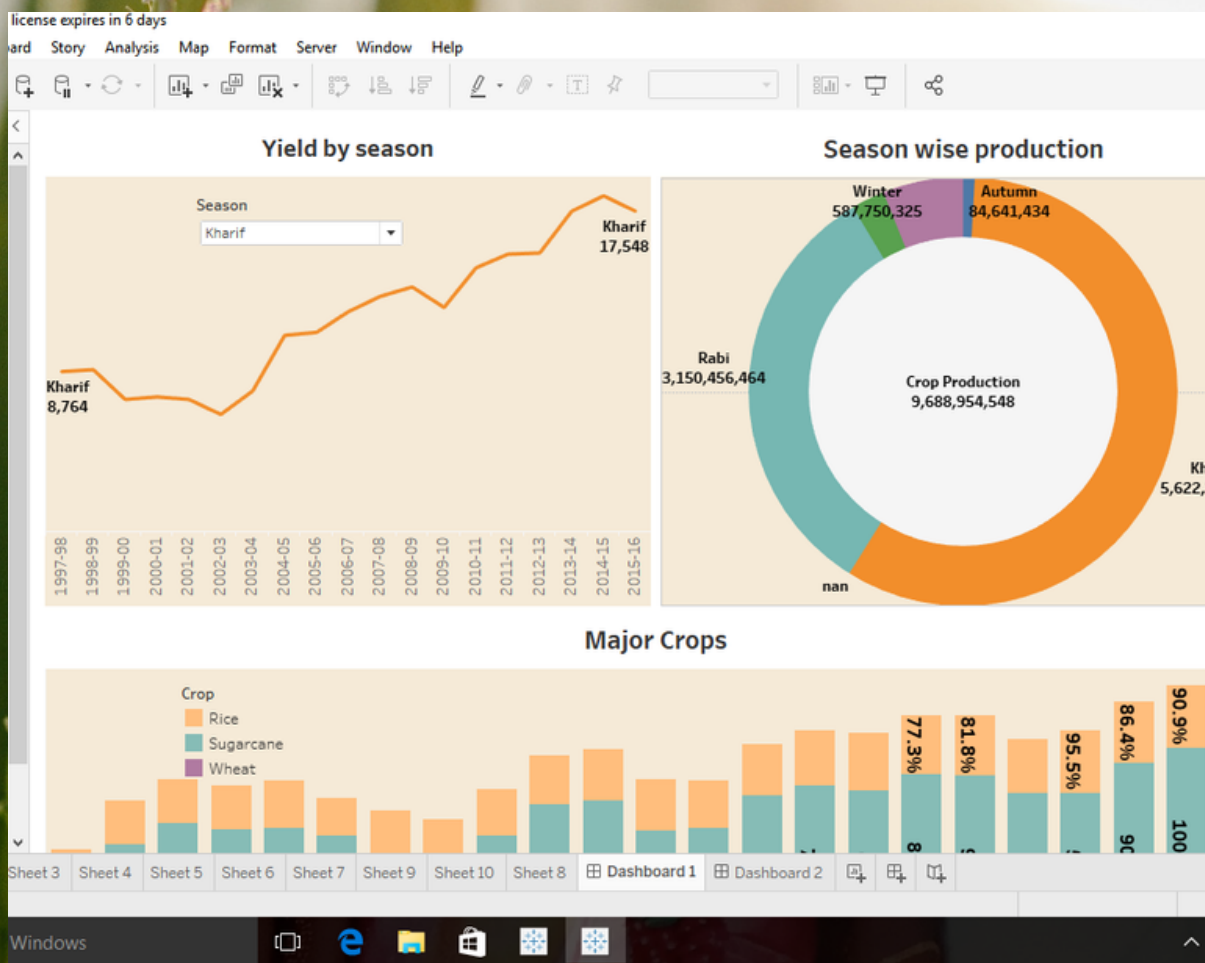
Empathy map



Brainstorming map



Result



The main use of a dashboard is to show a comprehensive overview of data from different sources.,

Dashboards are useful for monitoring, measuring and analysing relevant data in key areas.

Advantages & Disadvantages

Dashboards can help users monitor operations, optimize processes, and improve overall business performance by having data readily available, and can also help detect and prevent potential problems before they become issues with its use of real time

ADVANTAGES

1.excellent mobile support

2.easy to upgrade

3.low cost

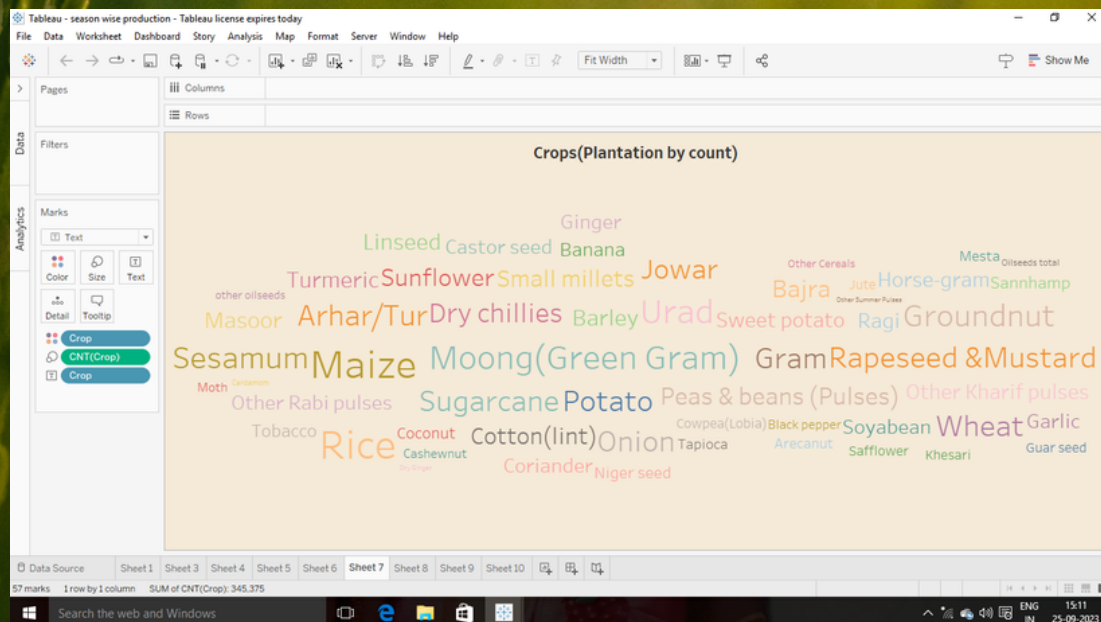
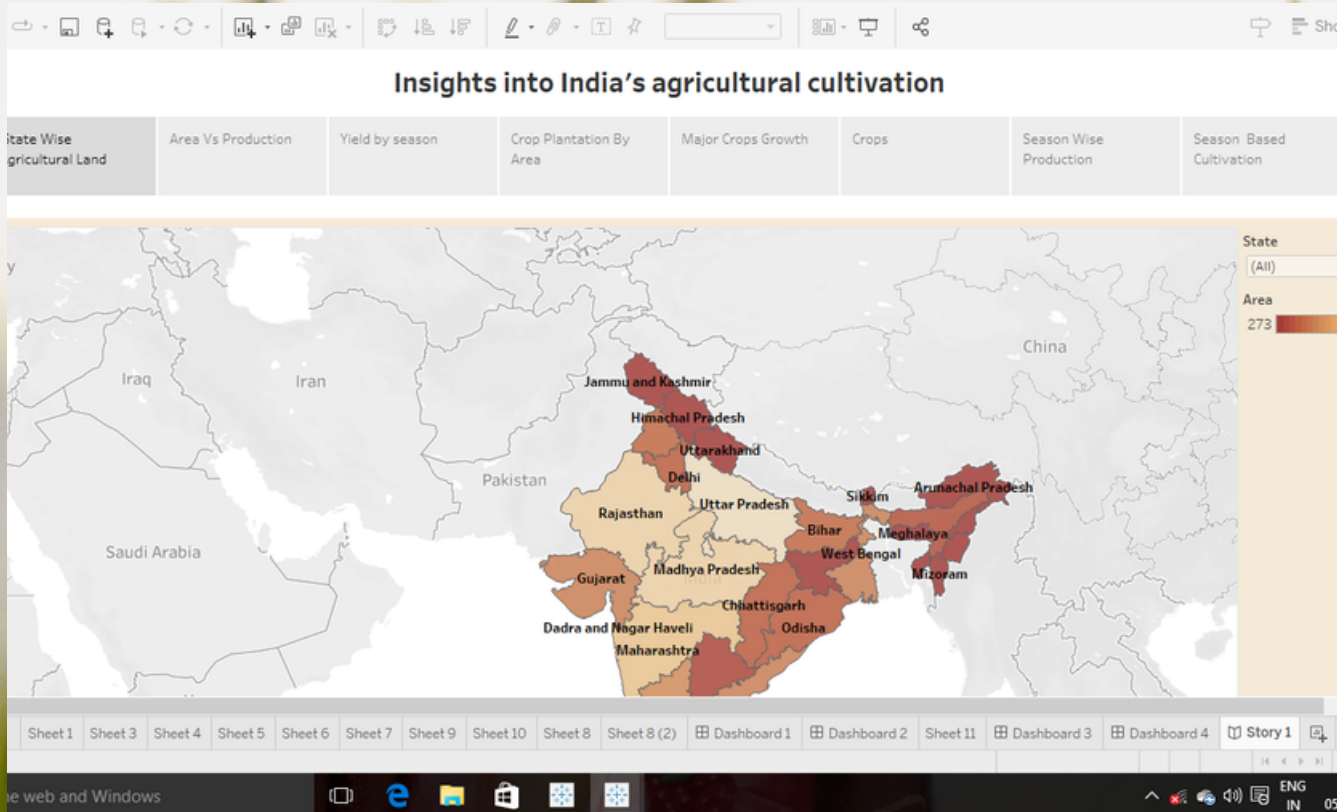
4.quality customer service.

DISADVANTAGES

1.not a comprehensive solution

2.no verrsion control

3.requires SQL knowledge



Applications

The agriculture sector focuses on food production and supplies food to feed a country's growing population. As a result, the agriculture sector is capable of meeting nearly all of its population's food requirements by developing a rigorous plan to increase the creation of foodstuff.

In IoT-based smart farming, a system is built for monitoring the crop field with the help of sensors (light, humidity, temperature, soil moisture, etc.) and automating the irrigation system. The farmers can monitor the field conditions from anywhere.

Use stories to make your case more compelling by showing how facts are connected, and how decisions relate to outcomes. You can then publish your story to the web, or present it to audience

Future Scope

Read up on our launch announcement covering all the new features in this release, including multi-row calculations in Tableau Prep, Line Patterns, and more!

Conclusion

. Good data visualization should communicate a data set clearly and effectively by using graphics. The best visualizations make it easy to comprehend data at a glance..

Conclusion- Tableau Visualization

Though the dataset is complex or the dataset is very big, in tableau, we can create dashboards very easily and within less time

Appendix



source code

**Koushik2344_India-s-
agricultural-crop-production-
analysis-1977-2021-
_NM2023TMID05278**

*Thank
you!*