# PROJECT REPORT

# RAJAH SERFOJI GOVERNMENT COLLEGE

# THANJAVUR

# DEPARTMENT OF STATISTICS

# NAAN MUDHALVAN

## DATA ANALYTICS WITH TABLEAU

## PROJECT NAME: INDIA'S AGRICULTURAL CROP PRODUCTION ANALYSIS (1997 – 2021)

| NAME | NM ID | POSITION |
|---|---|---|
| KALAIYARASAN. R | 6C344F6B0E229A3AF4D456BB5EAD945E | TEAM LEADER |
| MANIKANDAN. P | 20388F8E0C40A228B484953F640CBC23 | TEAM MEMBER |
| VARUNKUMAR. V | C95B1C0FA1CF52D84C9467588A068A61 | TEAM MEMBER |
| VIGNESH KANNAN K | C2A453D386D4946AB3D435211686E0DA | TEAM MEMBER |
| SOWMIYA R | 84FAF196F18AF77AC924CA544A437592 | TEAM MEMBER |

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# 1. INTRODUCTION

## OVERVIEW

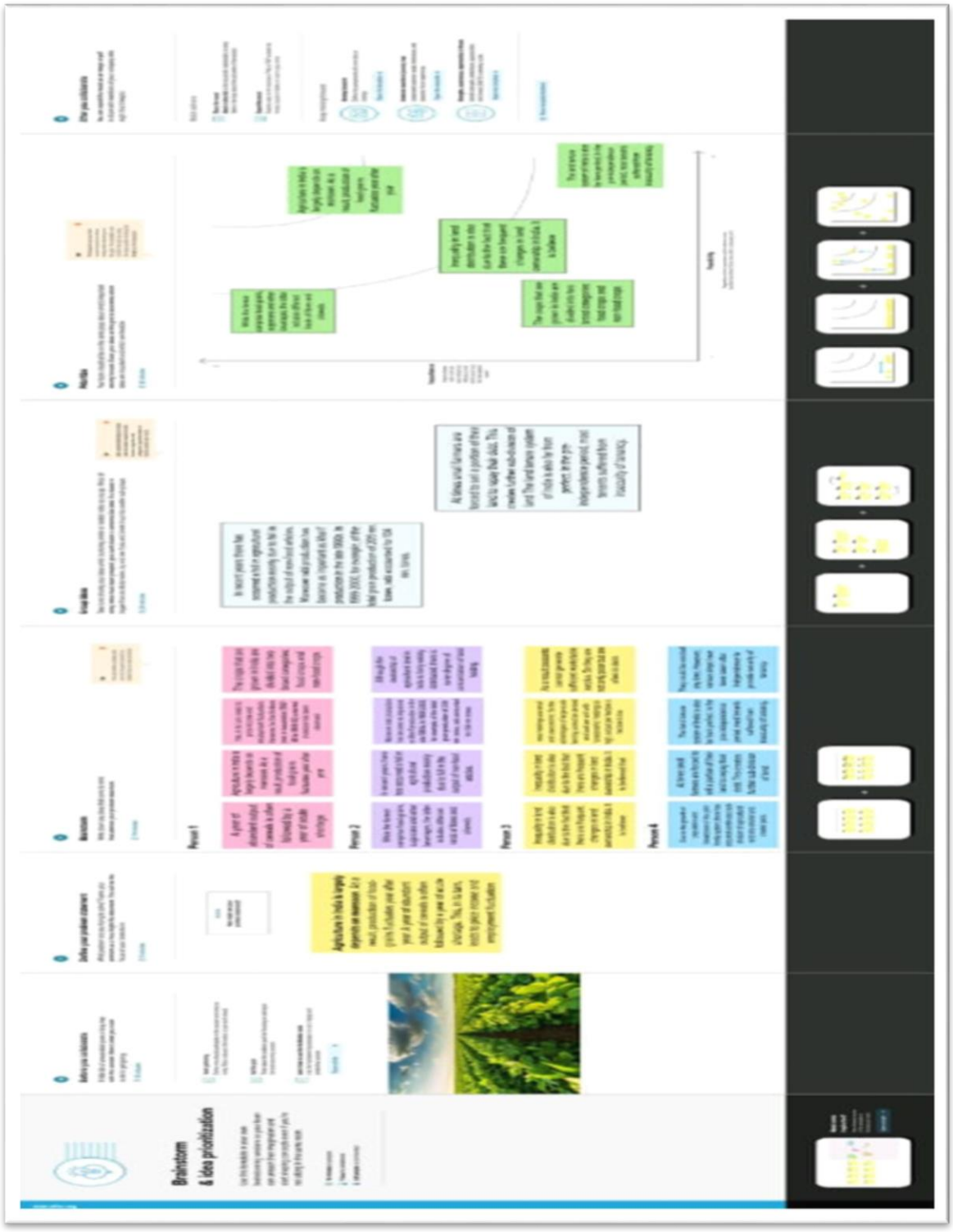
**Agriculture plays a vital role in India's economy. It is the primary source of livelihood for a significant portion of the population. India is known for its diverse agricultural practices, including the cultivation of crops like rice, wheat, sugarcane, and cotton. The country also has a rich tradition of dairy farming and horticulture. Agriculture in India is influenced by factors such as climate, soil types, and irrigation methods. Let me know if you want to know more specific details!**

## Purpose

**The purpose of analyzing Indian agriculture is to gain a better understanding of its strengths, challenges, and potential areas of improvement. By analyzing various aspects such as crop yields, agricultural practices, market trends, and government policies, we can identify opportunities to enhance productivity, ensure food security, promote sustainable practices, and support the livelihoods of farmers.**

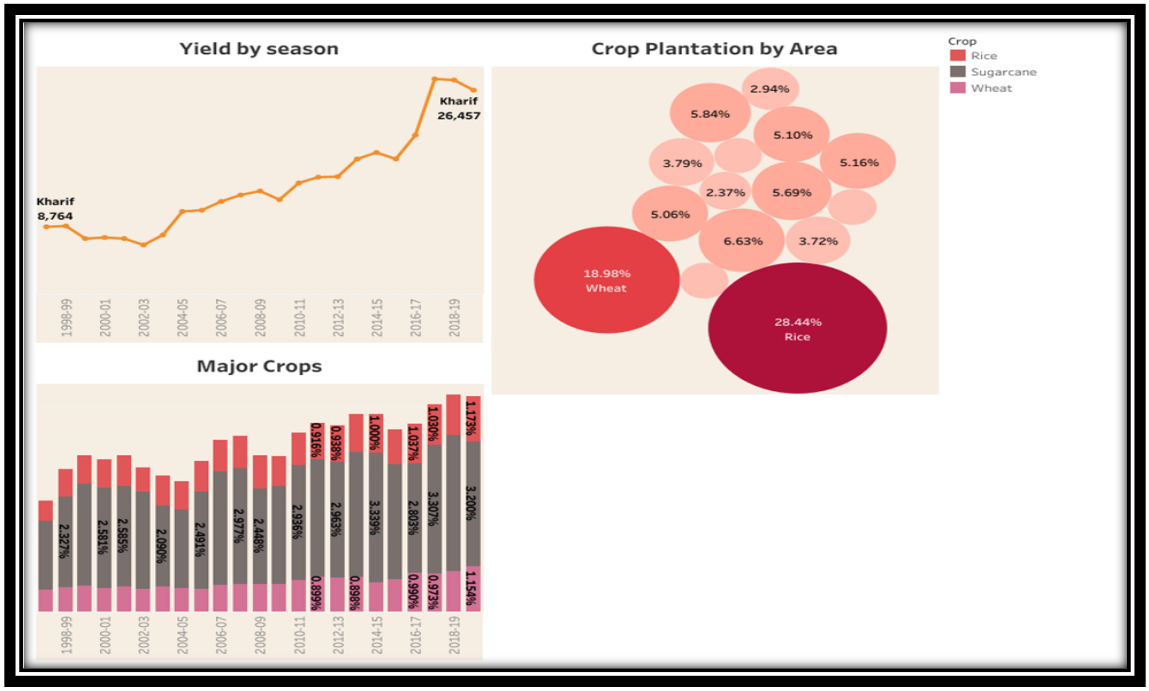
# 2.Emphathy Map

# Brainstorming Idea Prioritization

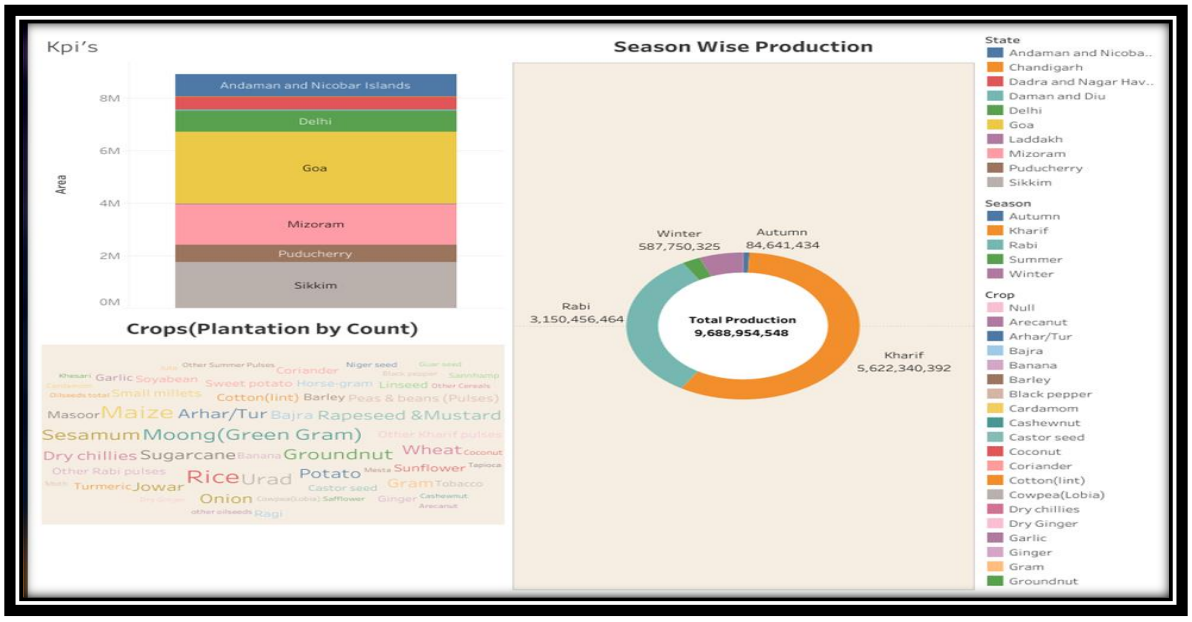


# 3.Result

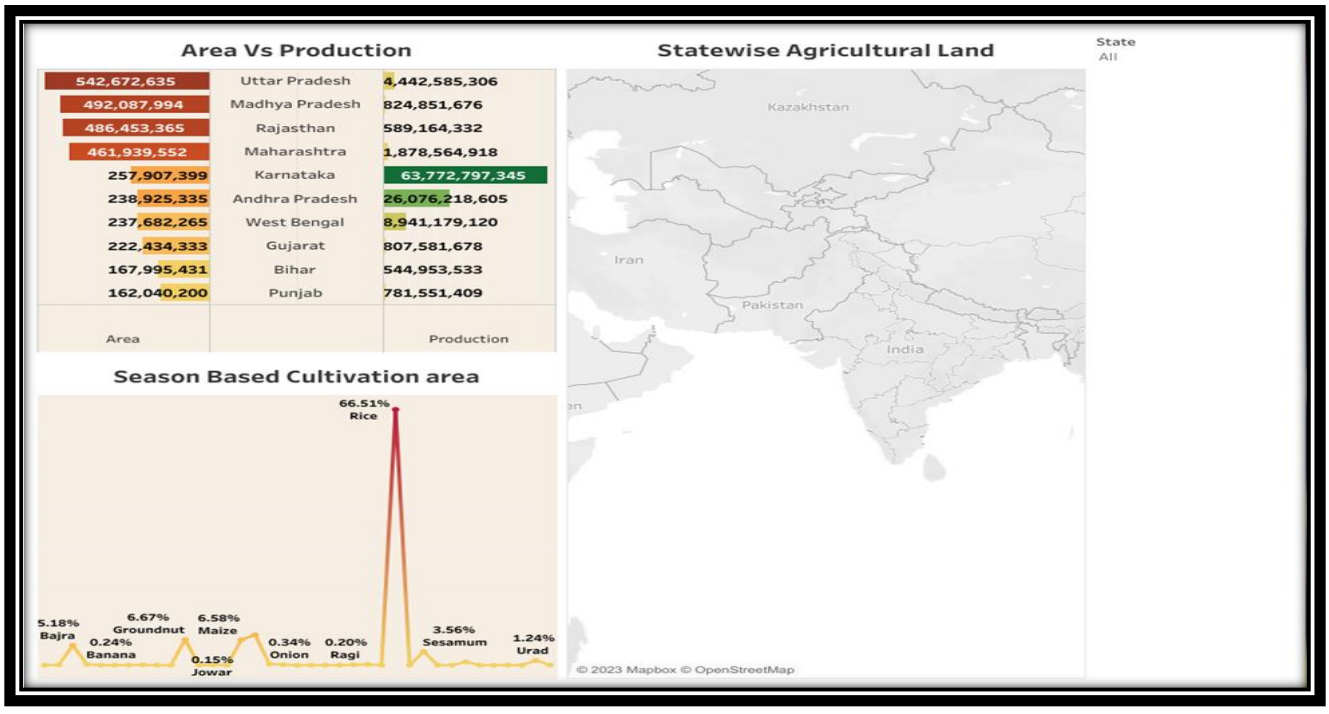
## DASHBOARD 1




## DASHBOARD 2

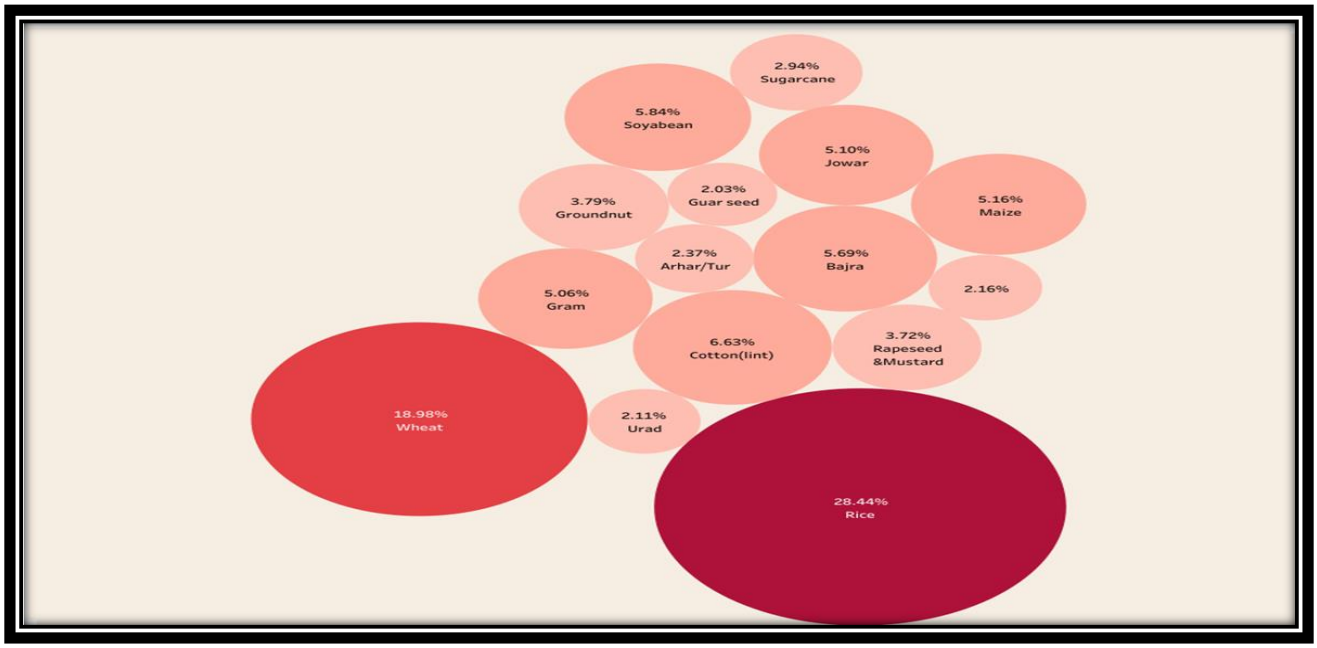



# DASHBOARD 3




# STORY 1

STORY 2




# 4. Advantages and Disadvantages

**ADVANTAGES: Agriculture provides a stable source of food and nutrition, supports the livelihoods of farmers, contributes to the economy, and helps in rural development.**

**DISADVANTAGES: Pests and diseases can affect crops, causing yield losses. Climate change can also have a negative impact on agricultural productivity.**

# 5.Applications

- **Agriculture analysis is used to gain insights into various aspects of the agricultural sector.**
- **It helps in understanding crop yields, identifying areas for improvement, and optimizing resource allocation.**
- **Analyzing market trends, it assists in making informed decisions about pricing, supply, and demand.**

# 6.Conclusion

- ✓ **Research and create a presentation on the impact of climate change on agriculture and propose sustainable solutions.**
- ✓ **Develop a mobile app or website that provides farmers with real-time market prices and agricultural information**.

# 7.Future Scope

- **Create an educational campaign to raise awareness about the importance of supporting local farmers and buying locally sourced produce.**
- **Design a community garden project to promote urban agriculture and encourage sustainable food production in urban areas.**

# 8.Appendix

Source Code:

- Data set link:

https://www.kaggle.com/datasets/pyatakov/india-agriculture-crop-production