

Data Analytics with Tableau

Project Report

India's Agricultural Crop Production Analysis

1. Introduction

1.1 Overview

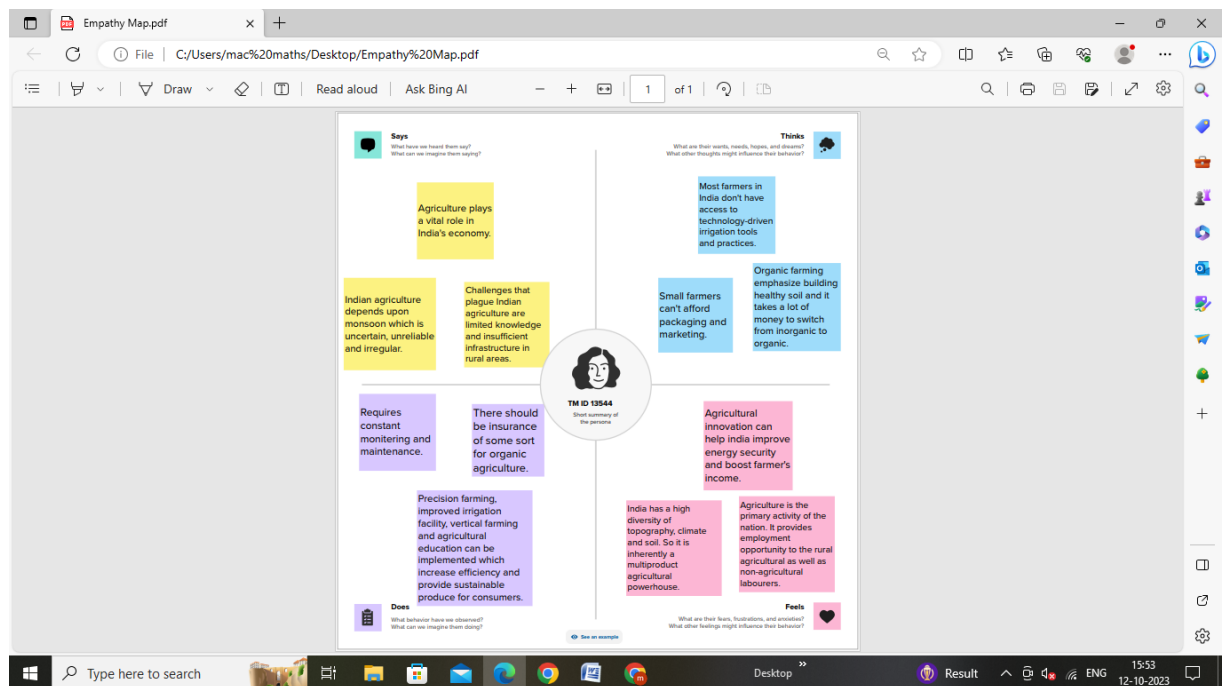
Crop production is a common agricultural practice followed by worldwide farmers to grow and produce crops to use as food and fibre. This practice includes all the sources that are required to maintain and produce crops. It provides employment opportunity to the rural agricultural as well as non-agricultural labourers. It also plays an important role in international business in import and export activities.

1.2 Purpose

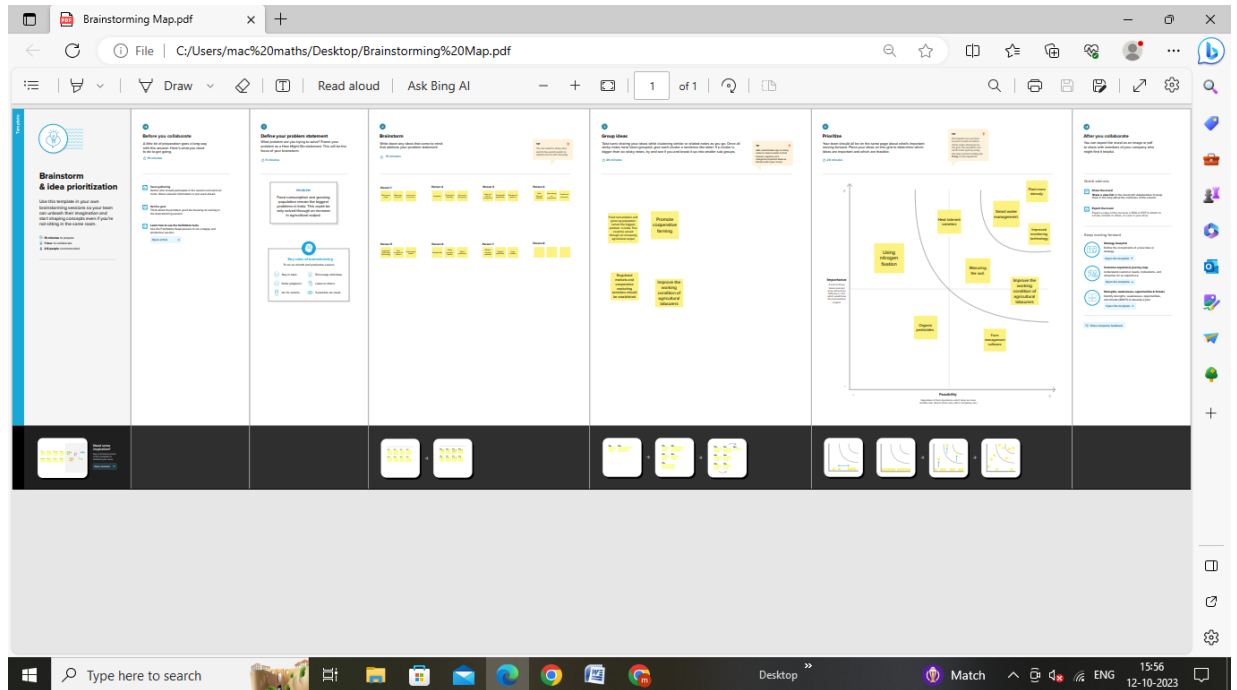
Crop production is the basis for providing the livestock industry with food and the population with food. This practice includes all the feed sources that are required to maintain and produce crops.

2. Problem Definition & Design Thinking

2.1 Empathy Map

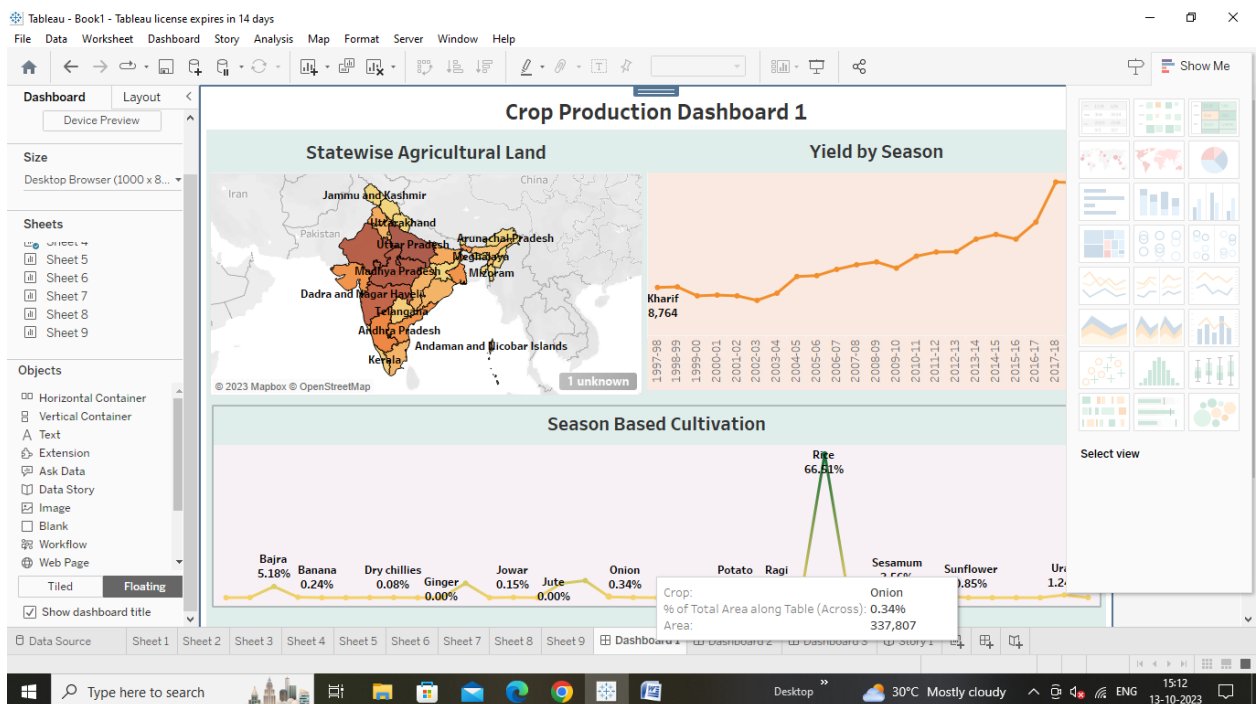


2.2 Ideation & Brainstorming Map

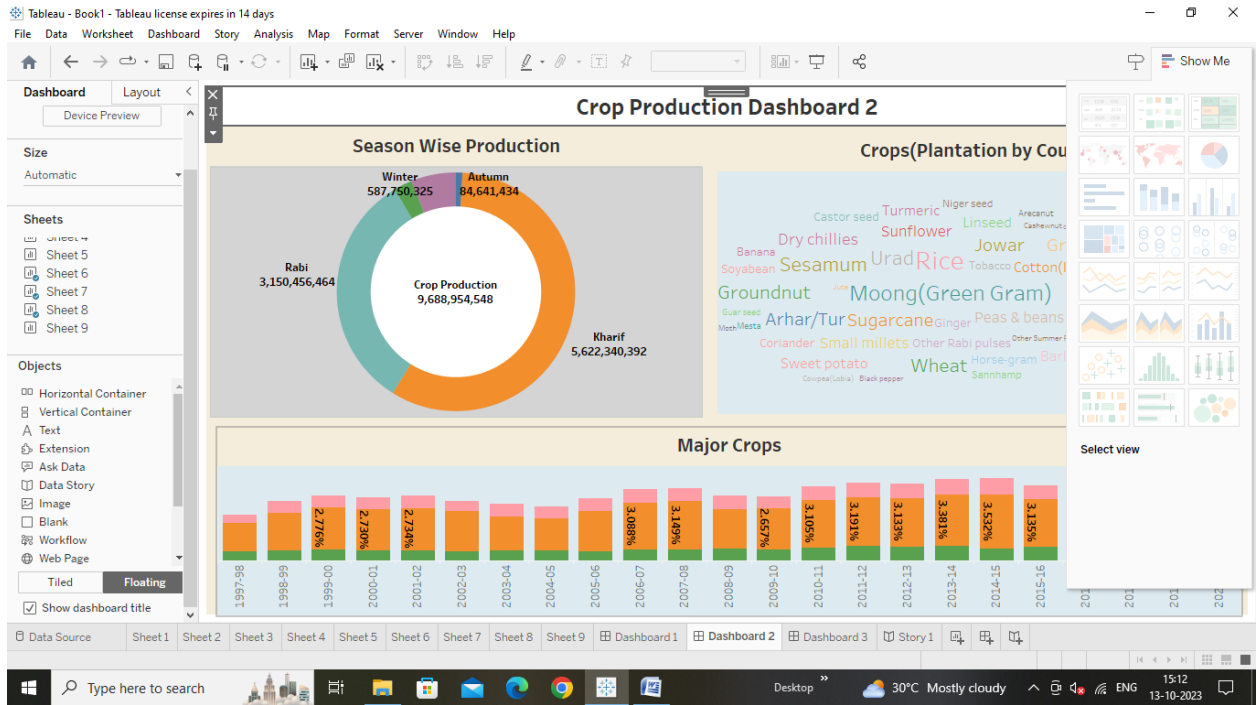


3. Result

Dashboard 1



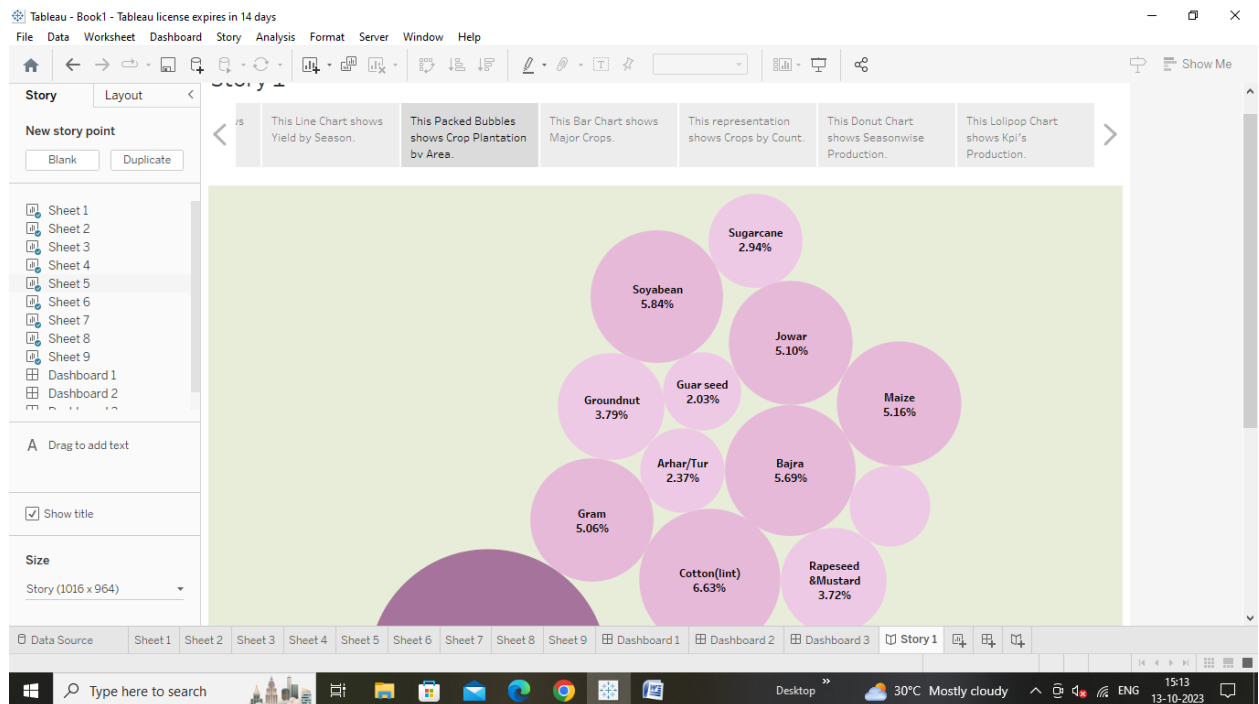
Dashboard 2



Dashboard 3



Story



4. Advantages & Disadvantages

Advantages:

Big data provides farmers granular data on rainfall patterns, water cycles, Fertilizers requirements, and more. This enables them to make smart decisions, such as what crops to plant for better profitability and when to harvest. The right decisions ultimately improve farm yields.

Disadvantages

Agriculture is impacted by urban land expansion and by higher water demand from other sectors. Agricultural risk “hotspots” occur where these resource pressures are most concentrated.

5. Application

1. Cultivating, characterizing or modifying soil.
2. Producing, growing, improving, protecting, treating or modifying crops or forest products.

6. Conclusion

Agriculture in India is livelihood for a majority of the population and can never be underestimated. Although its contribution in the Gross Domestic Product (GDP) has reduced to less than two percent and contribution of other sectors increased at a faster rate, agricultural production has grown.

7. Future Scope

Agriculture is good for the future as it is expected to use advanced technologies and innovations to produce more food with limited land and resources, increase efficiency on farms and become more profitable, safe and environment friendly.

8. Appendix