PROJECT REPORT

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

1.INTRODUCTION

1.1Overview

This report delves into the 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.

1.2Purpose

By harnessing the power of Tableau, this report not only presents the data in a visually appealing manner but also provides an interactive experience for readers to explore the intricacies of India's agricultural cultivation. To Extract the Insights from the data and put the data in the form of visualizations, Dashboards and Story we employed Tableau tool.

2.PROBLEM DEFINATION & DESIGN THINKING

2.1Empathy Map

2.2Ideation & Brainstroming Map

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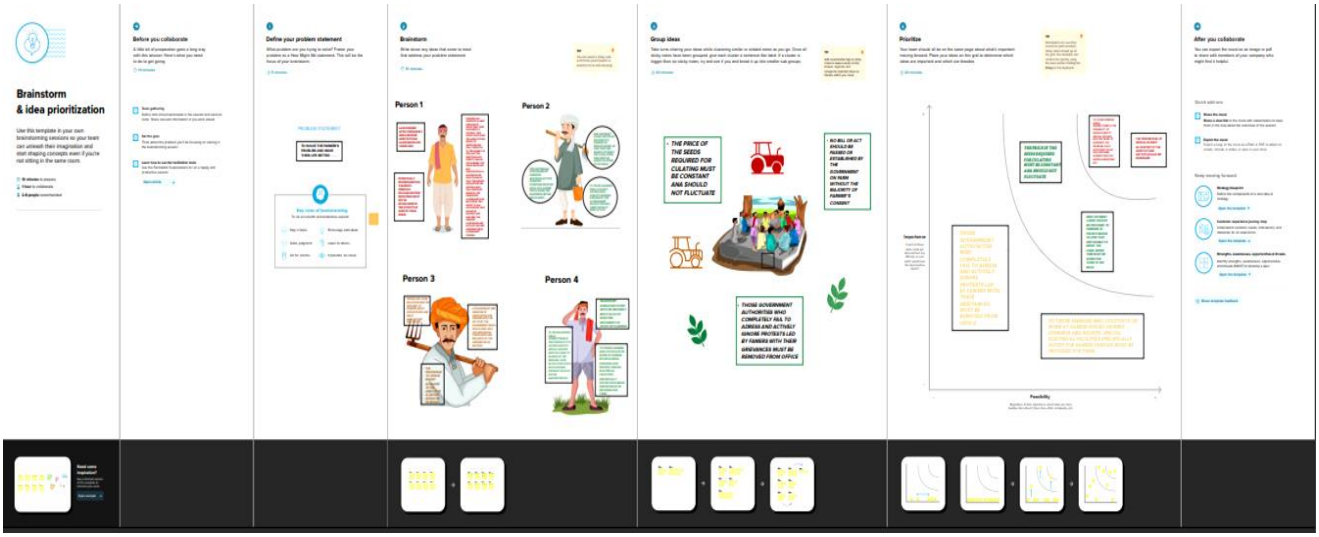
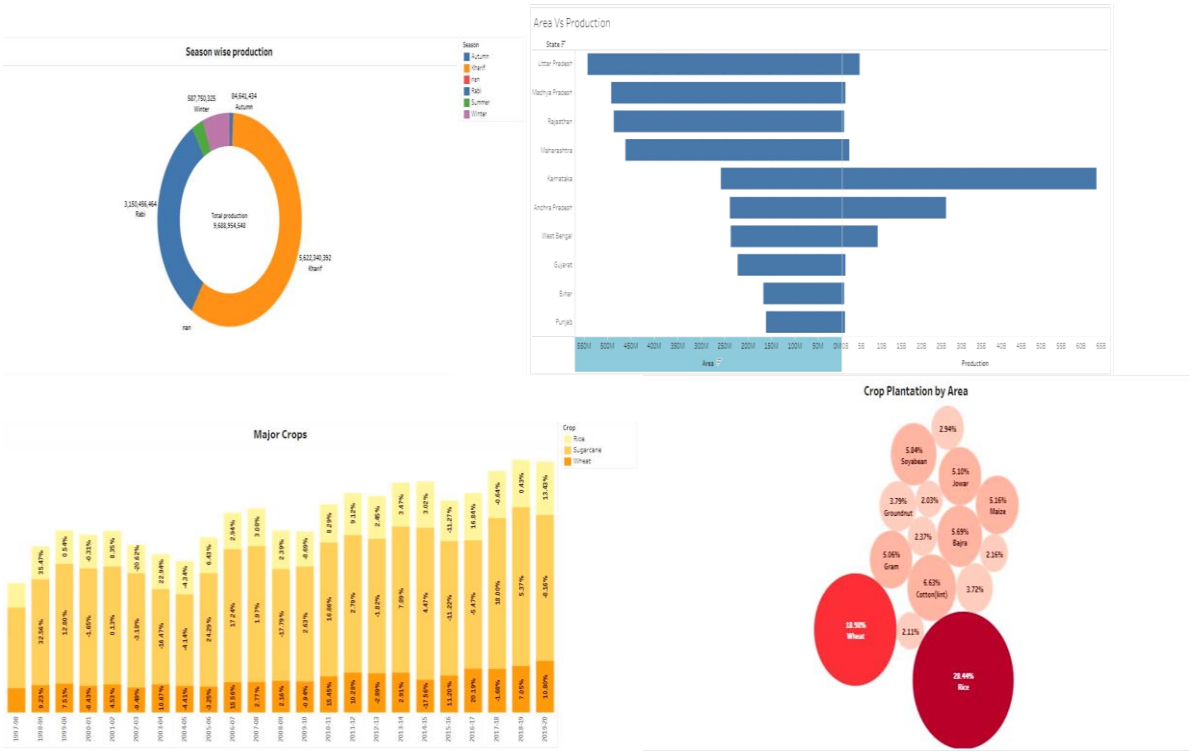


3.RESULT

Social Impact: On the social front, agriculture serves as a vital source of livelihood for a large portion of the population, especially in rural areas. It plays a crucial role in ensuring food security and alleviating poverty by providing employment opportunities and income generation. Moreover, agricultural activities contribute to the overall socio-economic development of rural communities, fostering social cohesion and preserving cultural traditions.



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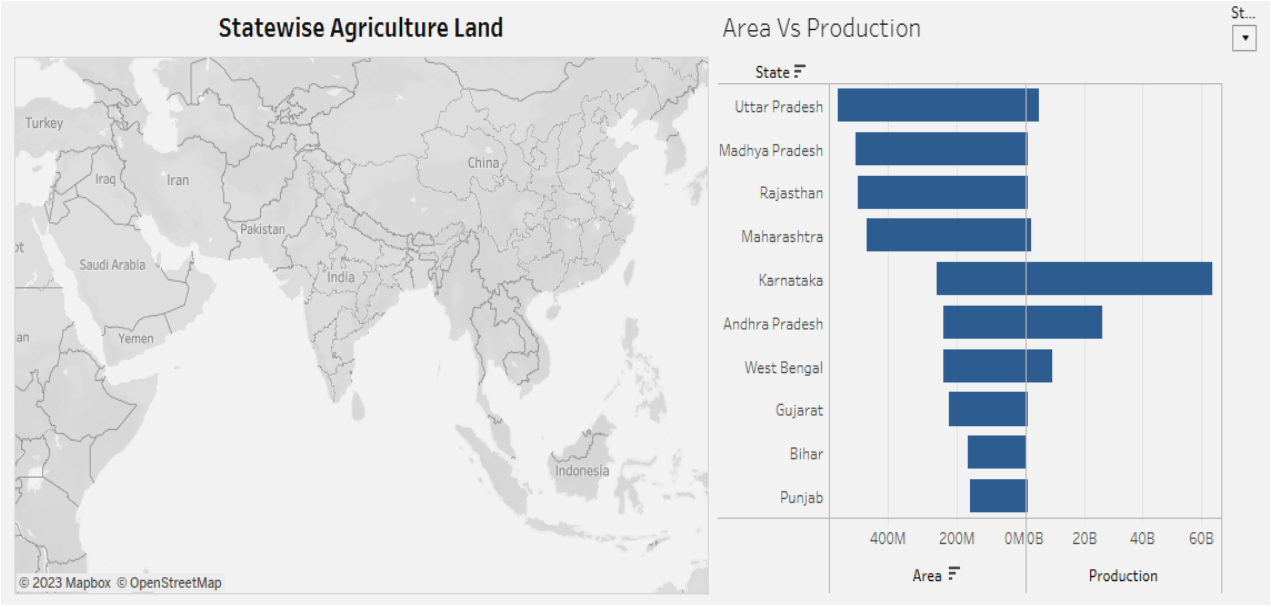
4.ADVANTAGES & DISADVANTAGES

Business Impact: From a business perspective, the agricultural sector plays a pivotal role in India's economy. It contributes to the country's GDP and serves as a source of raw materials for various industries, such as food processing, textile, and pharmaceuticals. The growth and productivity of the agricultural sector have direct implications for the overall economic performance and stability of the nation. Furthermore, advancements in agricultural practices and technology have the potential to enhance productivity, optimize resource utilization, and promote sustainable practices. This, in turn, can lead to increased profitability and competitiveness for agricultural businesses.

5.APPLICATIONS

Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypotheses, evaluate outcomes and generate insights from the data.

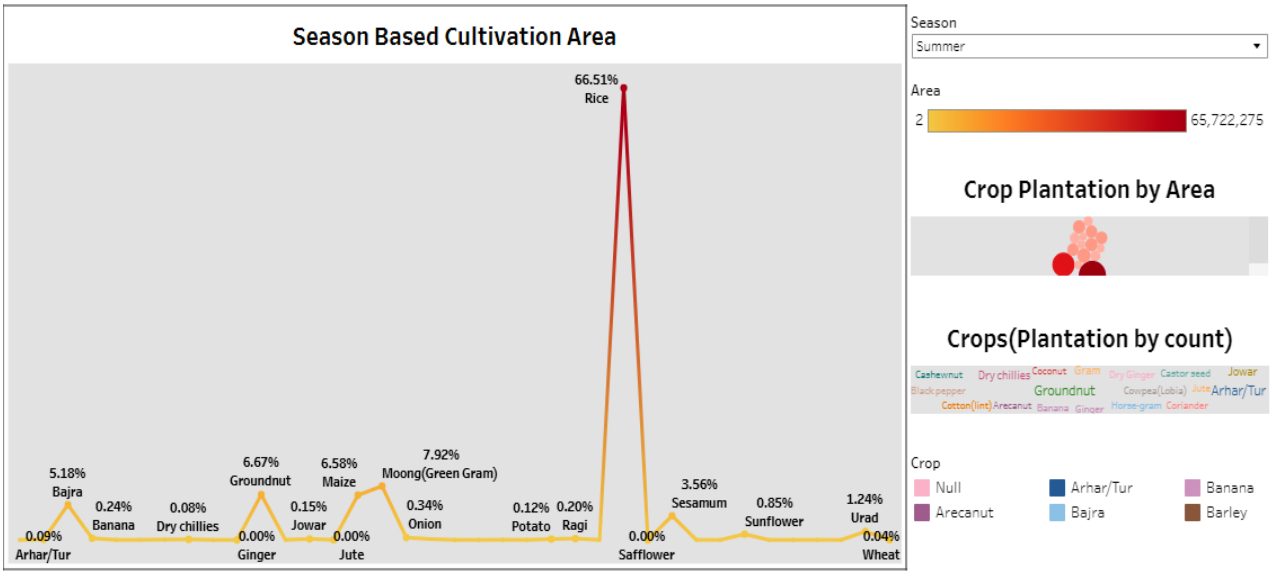
6.CONCLUSION

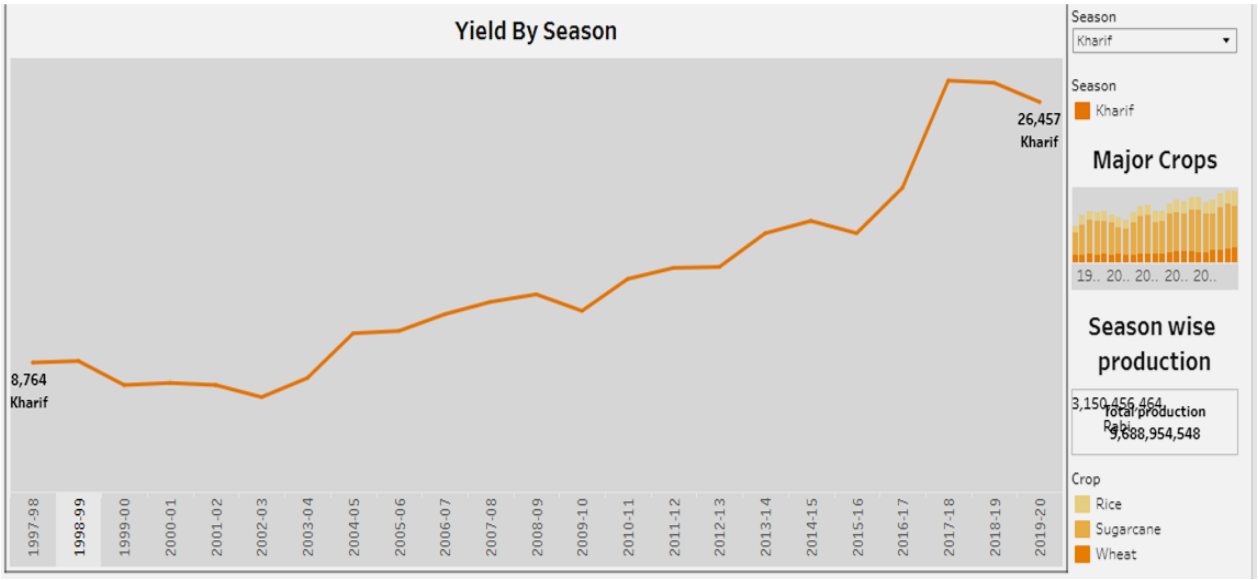


7.FUTURE SCOPE

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete. This process helps to make the data easily understandable and ready for creating visualizations to gain insights into the performance and efficiency

8.APPENDIX


Season Based Cultivation Area
66.51%
Rice
5.18%
Bajra
0.24%
Banana
0.08%
Dry chillies
6.67%
Groundnut
0.15%
Jowar
6.58%
Maize
7.92%
Moong(Green Gram)
0.34%
Onion
0.12%
Potato
0.20%
Ragi
3.56%
Sesamum
0.85%
Sunflower
1.24%
Urad
0.09%
Arhar/Tur
0.00%
Ginger
0.00%
Jute
0.00%
Safflower
0.04%
Wheat
Season
Summer
Area
2
65,722,275
Crop Plantation by Area
Crops(Plantation by count)
Cashewnut
Dry chillies
Coconut
Gram
Dry Ginger
Castor seed
Jowar
Black pepper
Groundnut
Cowpea(Lobia)
Jute
Arhar/Tur
Cotton(lint)
Arecanut
Banana
Ginger
Horse-gram
Coriander
Crop
Null
Arhar/Tur
Banana
Arecanut
Bajra
Barley


Yield By Season
26,457
Kharif
8,764
Kharif
1997-98
1998-99
1999-00
2000-01
2001-02
2002-03
2003-04
2004-05
2005-06
2006-07
2007-08
2008-09
2009-10
2010-11
2011-12
2012-13
2013-14
2014-15
2015-16
2016-17
2017-18
2018-19
2019-20
Season
Kharif
Season
Kharif
Major Crops
19.. 20.. 20.. 20.. 20..
Season wise production
3,150,456,464
Total production
9,688,954,548
Crop
Rice
Sugarcane
Wheat

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Insights into India's Agricultural Crop Cultivation

Indian States Visualization Area | Area Vs indian Production:top 10 indian countries the butterfly about is tableau offers a visual comparison area and the relationship | Cultivation of crops in india:distribution of crop cultivation in autumn , kharif ,rabi ,summer and winter | year-on- year percentage growth three key crops in india there are rice,sugarcane and wheat

Insights into India's Agricultural Crop Cultivation

Crop plantation by area: this percentage represant crop cultivation in india based on area | crop yield growth: year wise analysis this line chart provides a seasons | word cloud : the following word cloud gives a representation the count of crops and vice versa | crop production in tonnes:season like autumn, kharif,,nan,rabi , summer,winter