

PROJECT REPORT TEMPLATE

INDIA'S AGRICULTURE CROP

PRODUCTION ANALYSIS

(1997-2021)

INTRODUCTION:

OVERVIEW:

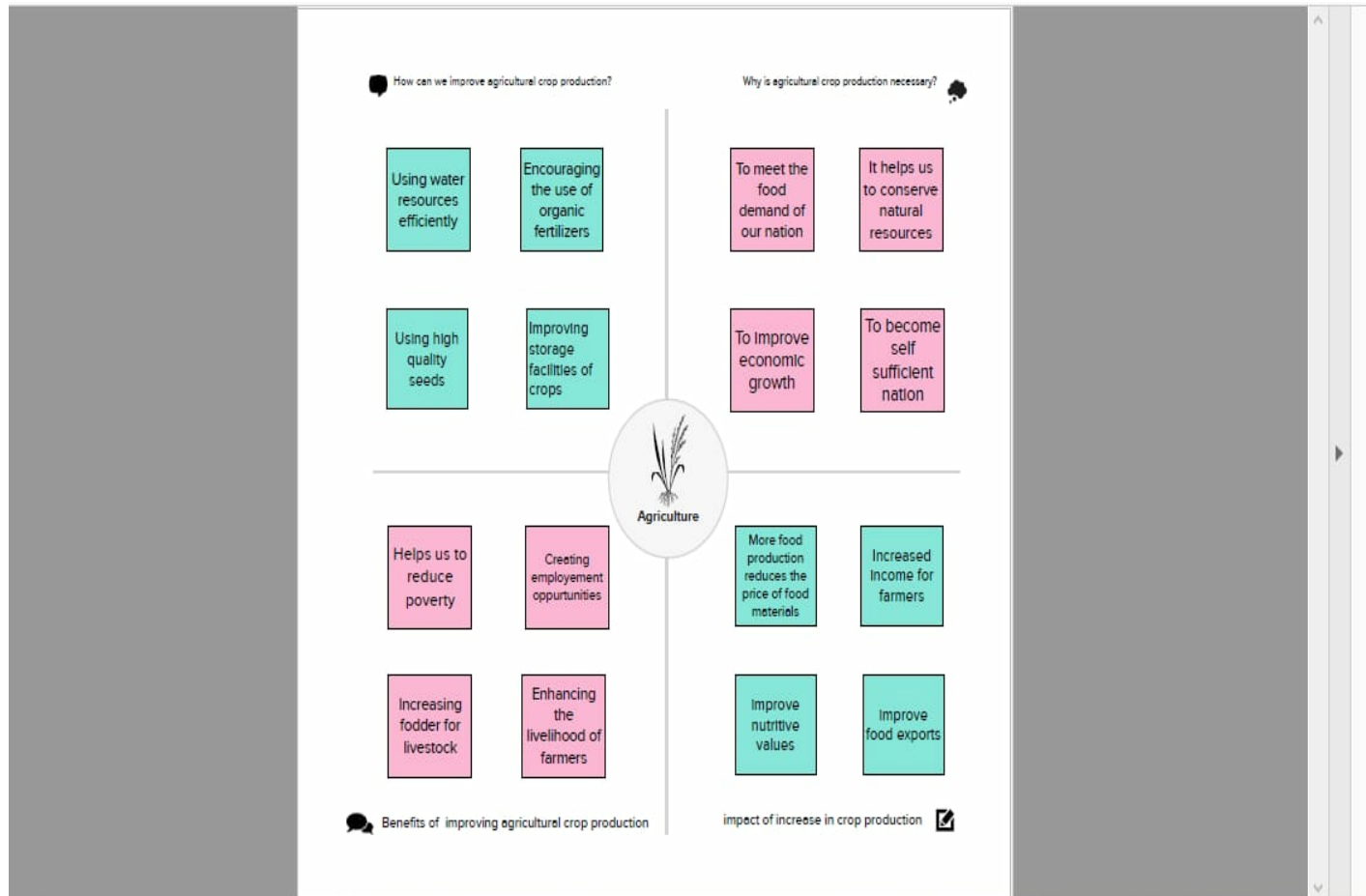
India's agriculture production analysis refers to the examination and evaluation of various aspects related to agriculture in India over a specific period . This analysis typically involves collecting and interpreting data and information related to crop production, live stock, agricultural practices, policies and their impact on the Indian agricultural sector.

PURPOSE:

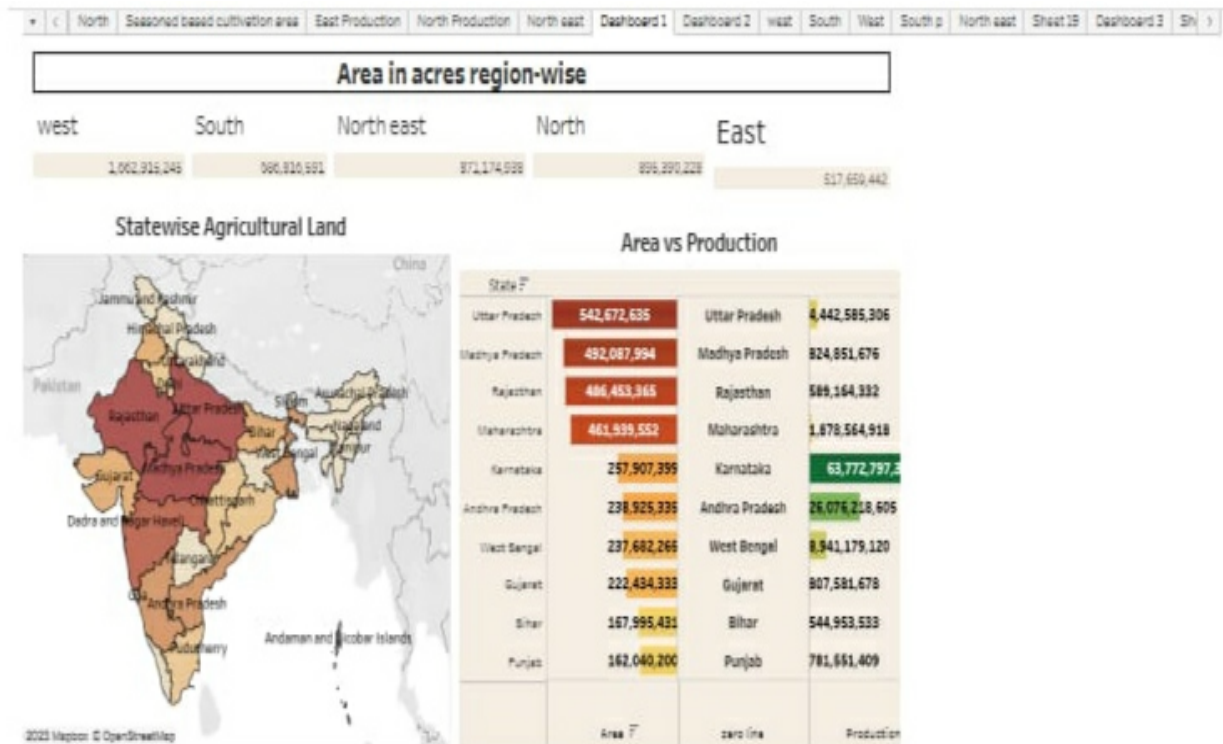
The analysis of India's agriculture production from 1997-2021 serves a range of purposes from shaping policies to ensuring food security, improving the livelihoods of farmers and addressing environmental sustainability concerns. It is a crucial tool for informed decision-making in the agricultural sector and the broader economy.

2.PROBLEM DEFINITION AND DESIGN THINKING:

2.1 EMPATHY MAP



2.2 IDEATION AND BRAINSTORMING:

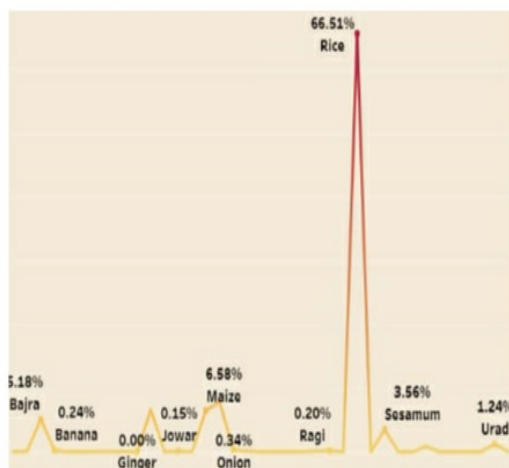


DASHBOARD 2:

Production in tonnes region-wise

West	South	North east	North	East
5,469,314,477	298,242,995,373	2,146,435,292	1,616,364,327	13,253,660,100

Seasoned based cultivation area



Crop plantation by Area

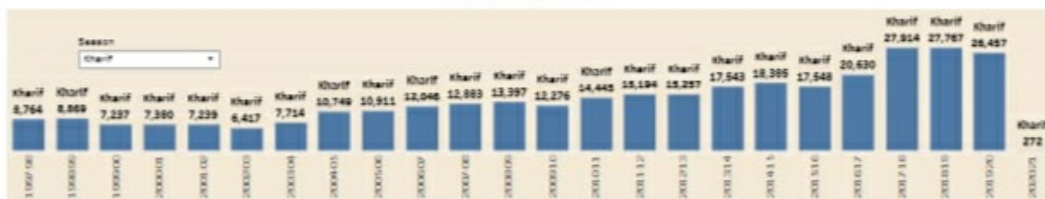


Crops plantation by Count

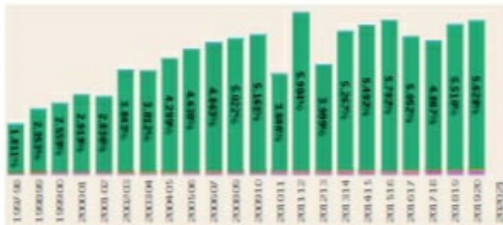


DASHBOARD 3:

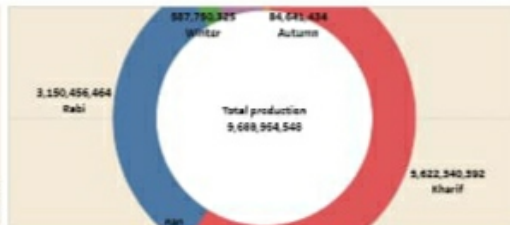
Yield by season



Major Crops



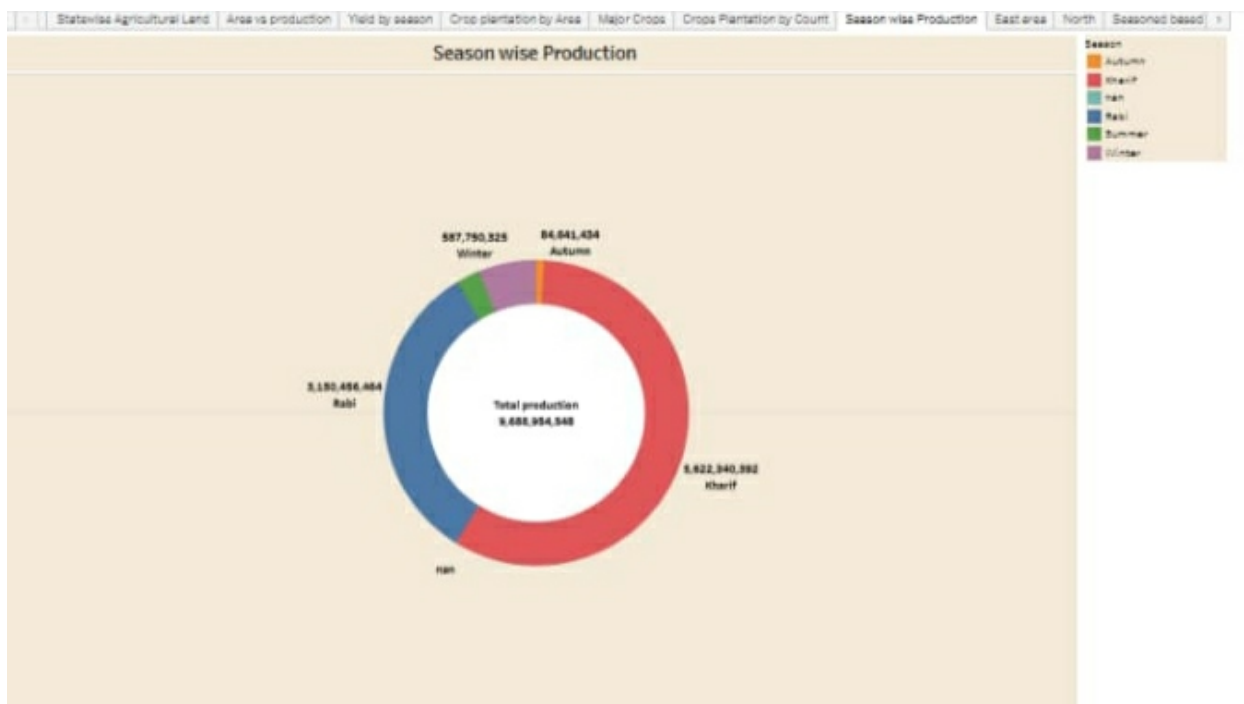
Season wise Production



STORY :1



STORY:2



4.ADVANTAGES AND DISADVANTAGES:

ADVANTAGES:

- **LONG – TERM TRENDS:**

Examining this extended period allows for the identification of long –term trends which can help policy makers make informed decisions.

- **DATA AVAILABILITY:**

A wealth of historical data is available, enabling comprehensive analysis.

- **POLICY EVALUATION:**

It facilitates the evaluation of the effectiveness of various agricultural policies implemented over the years.

- **COMPARATIVE ANALYSIS:**

Researchers can compare different crops, regions, and time frames to gain valuable insights.

- **CLIMATE CHANGE ASSESSMENT:**

It enables the assessment of how climate change has impacted Agricultural production overtime.

DISADVANTAGES:

- **DATA QUALITY:**

Historical data may have inconsistencies and inaccuracies, making analysis less reliable.

- **CHANGING VARIABLES:**

Over this long period, various factors like technology, demographics and global markets have evolved, making it challenging to isolate the impact of specific variables.

- **REGIONAL VARIATIONS:**

India is diverse and

agricultural production varies significantly by region, making it challenge to generalize findings.

- **COMPLEX INTERACTIONS:**

Agricultural production is influenced by a complex web of factors, including weather, government policies, infrastructure, and socio-economic conditions, making it hard to establish causation.

- **LIMITED SCOPE:**

An analysis restricted to 1997-2021 may not capture recent developments or future trends, limiting its applicability.

APPLICATION:

Certainly, here are some simple and concise applications of analyzing India's agriculture crop production data from 1997 to 2021.

1. OPTIMIZED FARMING:

Helps farmers make better crop choices and planting decisions.

2.POLICY PLANNING:

Assists policymakers in designing effective agricultural policies.

3.FOOD SECURITY:

Supports strategies to ensure a stable food supply for the nation.

4.MARKET INSIGHTS:

Offers insights for the traders and business in the agriculture sector.

5.CLIMATE ADAPTATION:

Aids in adapting farming practices to changing weather patterns.

CONCLUSION:

Define problem/problem understanding

- Specify the business problem
- Business requirements
- Literature survey

Data collection & extraction

- Connect dataset with tableau
- Collect the dataset

Data preparation

- Prepare the data for visualizations

Data visualizations

- No of unique visualizations

Dashboard

- Responsive and design of dashboard

Story

- No of scenes of story

Performance testing

- Utilization of data filters
- No of visualizations/graphs project demonstration & documentation
- Record explanation video for project end to end solution. By this we conclude our project.

FUTURE SCOPE:

The future scope of India's agriculture crop production analysis is vast and diverse, encompassing everything from sustainable farming practices to cutting-edge technology adoption and policy development. Leveraging historical data can be a cornerstone in addressing the challenges and opportunities in India agriculture in the years to come.

Data analysis can inspire the creation of innovative agricultural technology solutions, including apps and tools that provide farmers with real-time information on weather, market

prices and best practices.