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

III B SC MATHEMATICS

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UNDER THE GUIDENCE OF

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CONTENT OF THE THESIS

- INTRODUCTION
- PROBLEM DEFINITION & DESIGN THINKING
- RESULT
- ADVANTAGES & DISADVANTAGES
- APPLICATIONS
- CONCLUTION
- FUTURE SCOPE
- APPENDIX

❖ INTRODUCTION

1.1 OVERVIEW

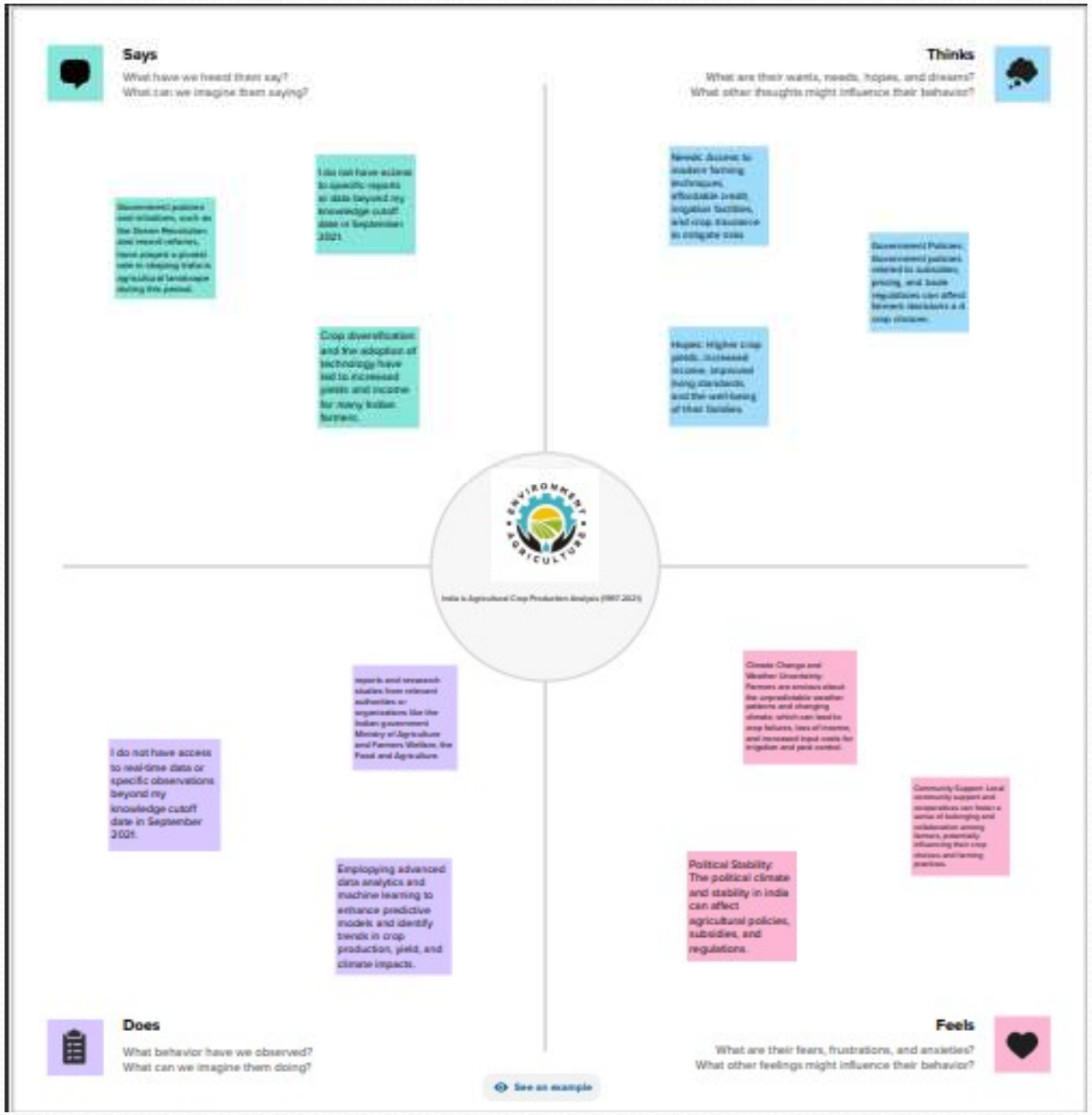
India's agricultural crop production analysis from 1997 to 2021 reveals a multifaceted picture of the country's farming landscape. During this period, India witnessed substantial changes in crop yields, cropping patterns, and agricultural practices. Various factors, including government policies, climate fluctuations, technological advancements, and market dynamics, have played significant roles in shaping the nation's agricultural output.

1.2 PURPOSE

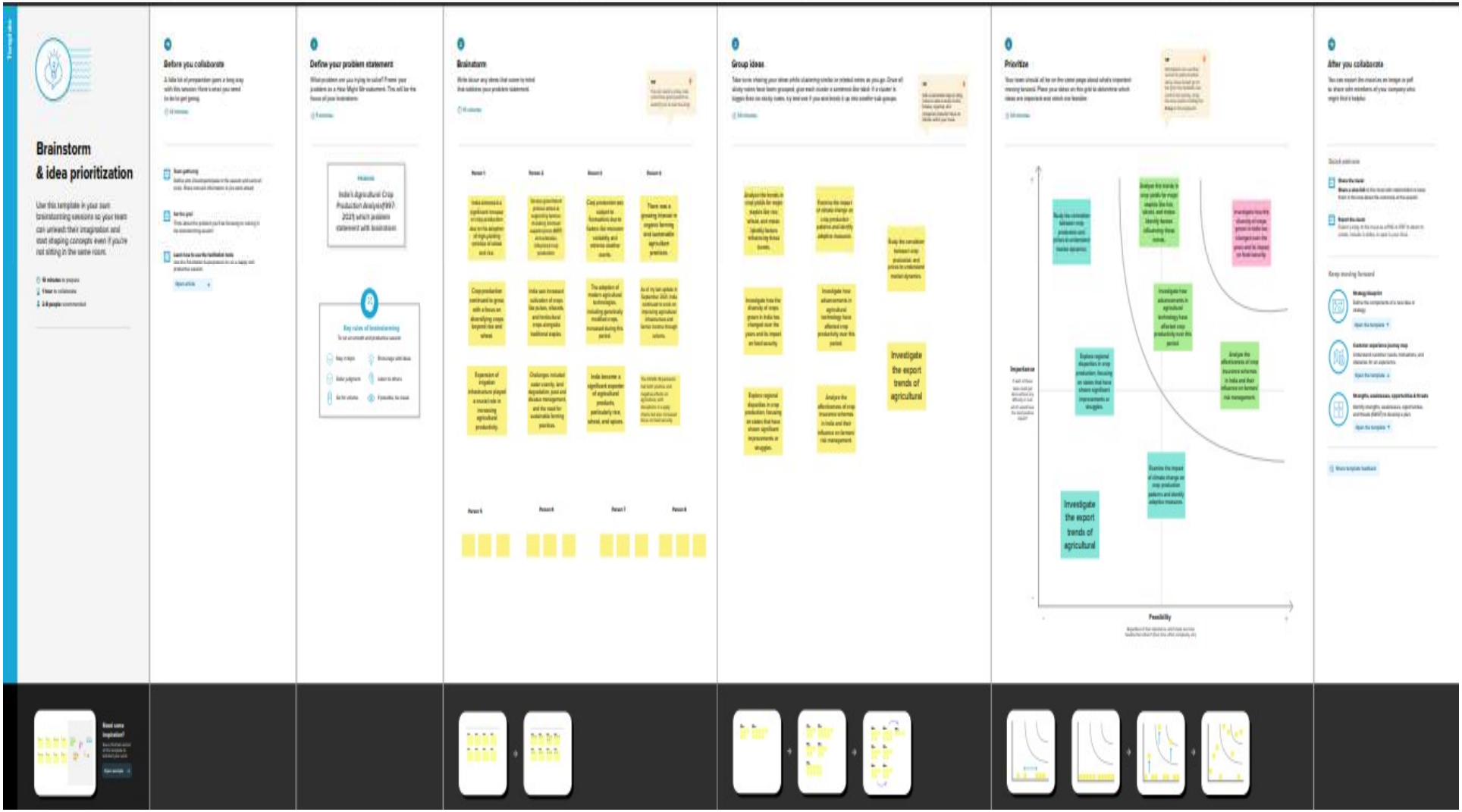
- The purpose of analyzing India's agricultural crop production is to assess productivity, formulate effective policies, ensure food security, evaluate economic impact, promote sustainability, address climate resilience, manage global trade, track technology adoption, encourage crop diversification, and consider social and environmental impacts to guide informed decisions for a robust and sustainable agricultural sector.

❖ PROBLEM DEFINITION & DESIGN THINKING

2.1 EMPATHY MAP



2.2 IDEATION & BRAINSTORMING MAP



❖ADVANTAGES & DISADVANTAGES

ADVANTAGES TO INDIA'S AGRICULTURE

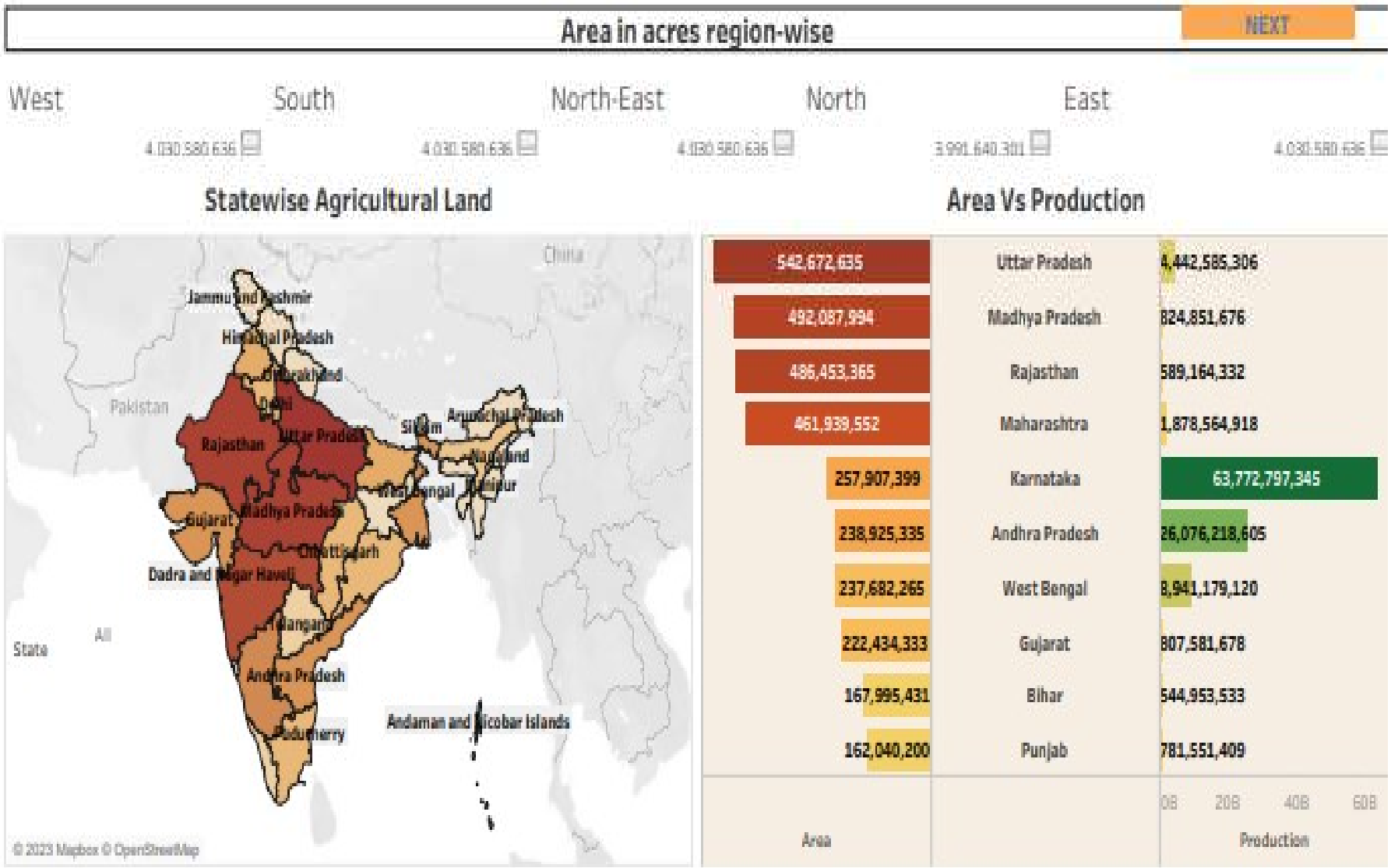
- Food security
- Employment
- Economic contribution
- Rural livelihoods
- Crop diversity

DISADVANTAGES TO INDIA'S AGRICULTURE

- Climate risks
- Land degradation
- Water scarcity
- Price volatility
- Small landholdings

RESULT

DASHBOARD 1



DASHBOARD 2

PREVIOUS

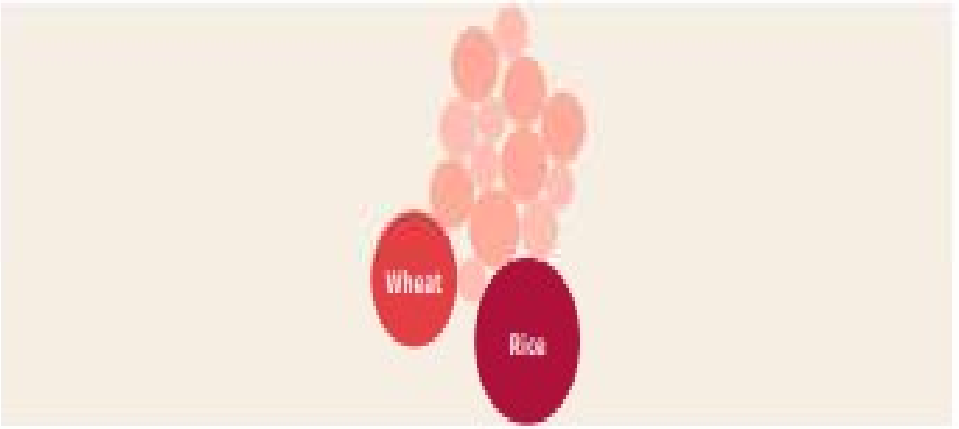
Production in tonnes region-wise

NEXT

West	South	North-East	North	East
326,242,956,201	326,242,956,201	326,242,956,201	15,438,183,623	326,242,956,201

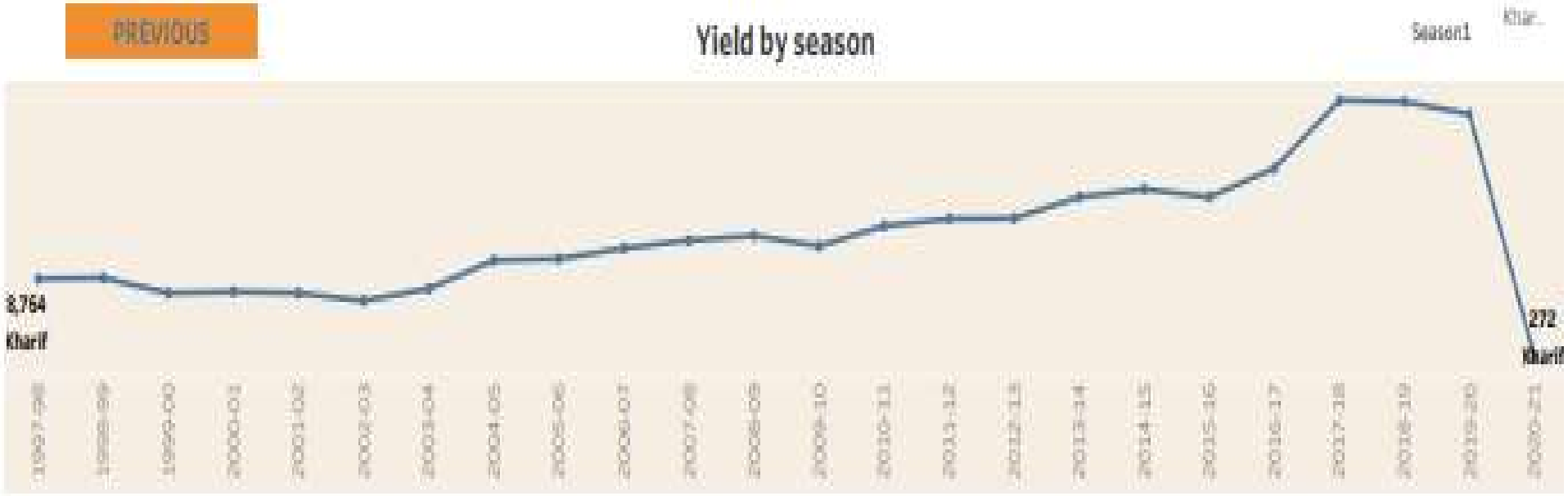
Season Based cultivation area

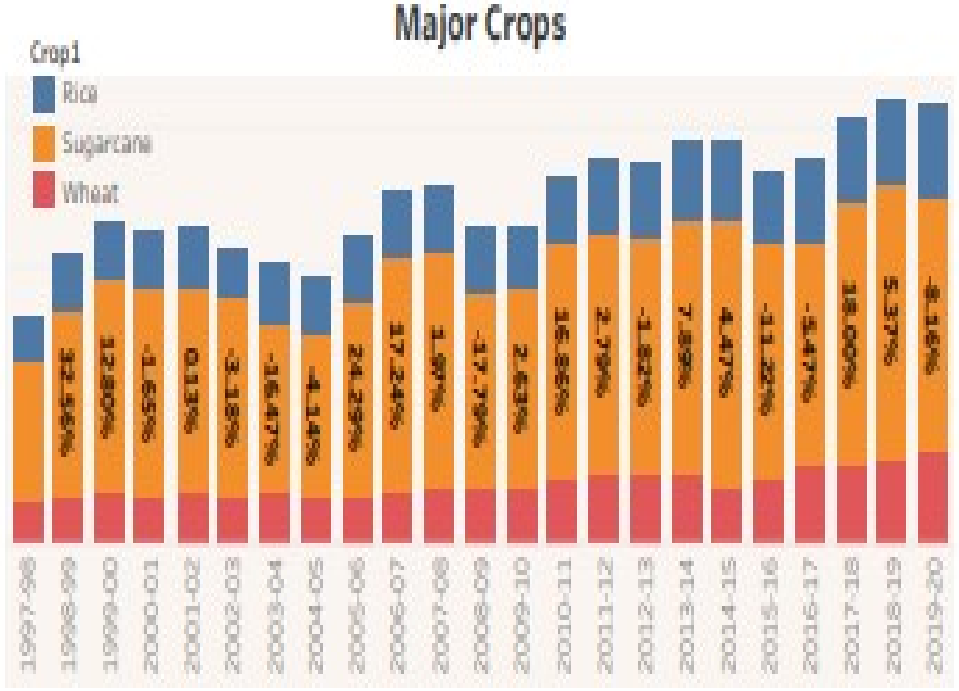
Crop Plantation by Area

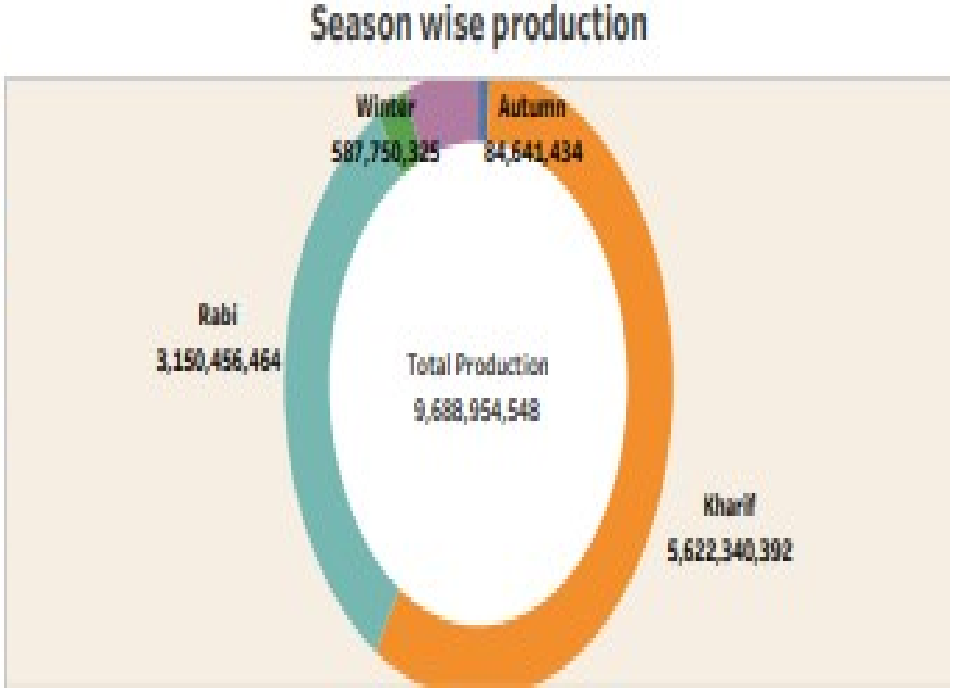


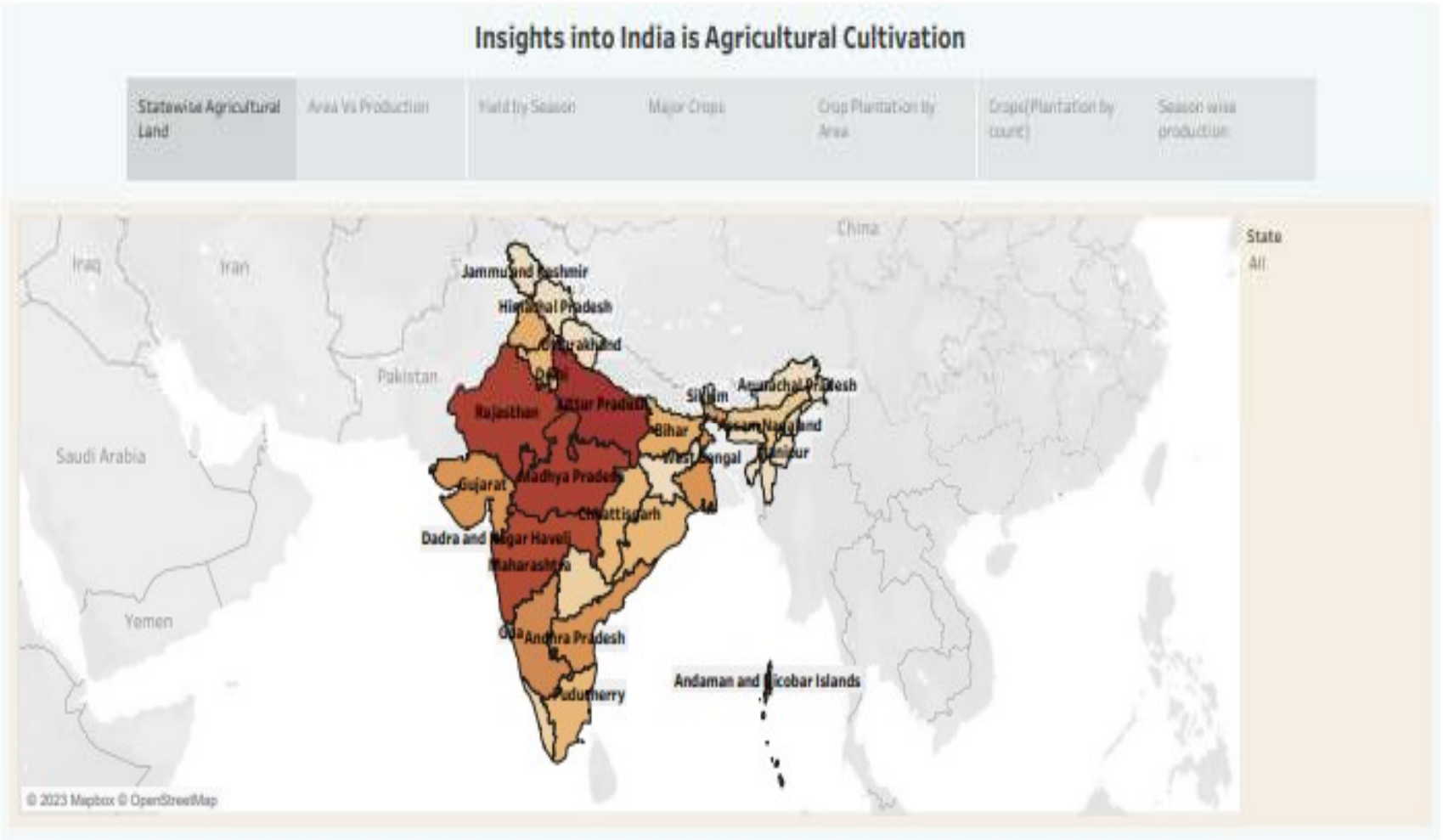
Crops(Plantation by count)

DASHBOARD 3


PREVIOUS
Yield by season
Season1
8,764
Kharif
272
Kharif


Major Crops
Crop1
Rice
Sugarcane
Wheat


Season wise production
Winter
587,750,325
Autumn
84,641,434
Rabi
3,150,456,464
Total Production
9,688,954,548
Kharif
5,622,340,392


Insights into India is Agricultural Cultivation
Statewise Agricultural Land
Area Vs Production
Yield by Season
Major Crops
Crop Plantation by Area
Crops(Plantation by count)
Season wise production
China
Iraq
Iran
Pakistan
Saudi Arabia
Yemen
Jammu and Kashmir
Himachal Pradesh
Uttarakhand
Delhi
Rajasthan
Uttar Pradesh
Bihar
Sikkim
Arunachal Pradesh
Nagaland
Manipur
West Bengal
Madhya Pradesh
Gujarat
Chhattisgarh
Dadra and Nagar Haveli
Maharashtra
Goa
Andhra Pradesh
Puducherry
Andaman and Nicobar Islands
State
All
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Insights into India is Agricultural Cultivation

Statewise Agricultural Land | Area Vs Production | Yield by Season | Major Crops | Crop Plantation by Area | Crop Plantation by count | Season wise production

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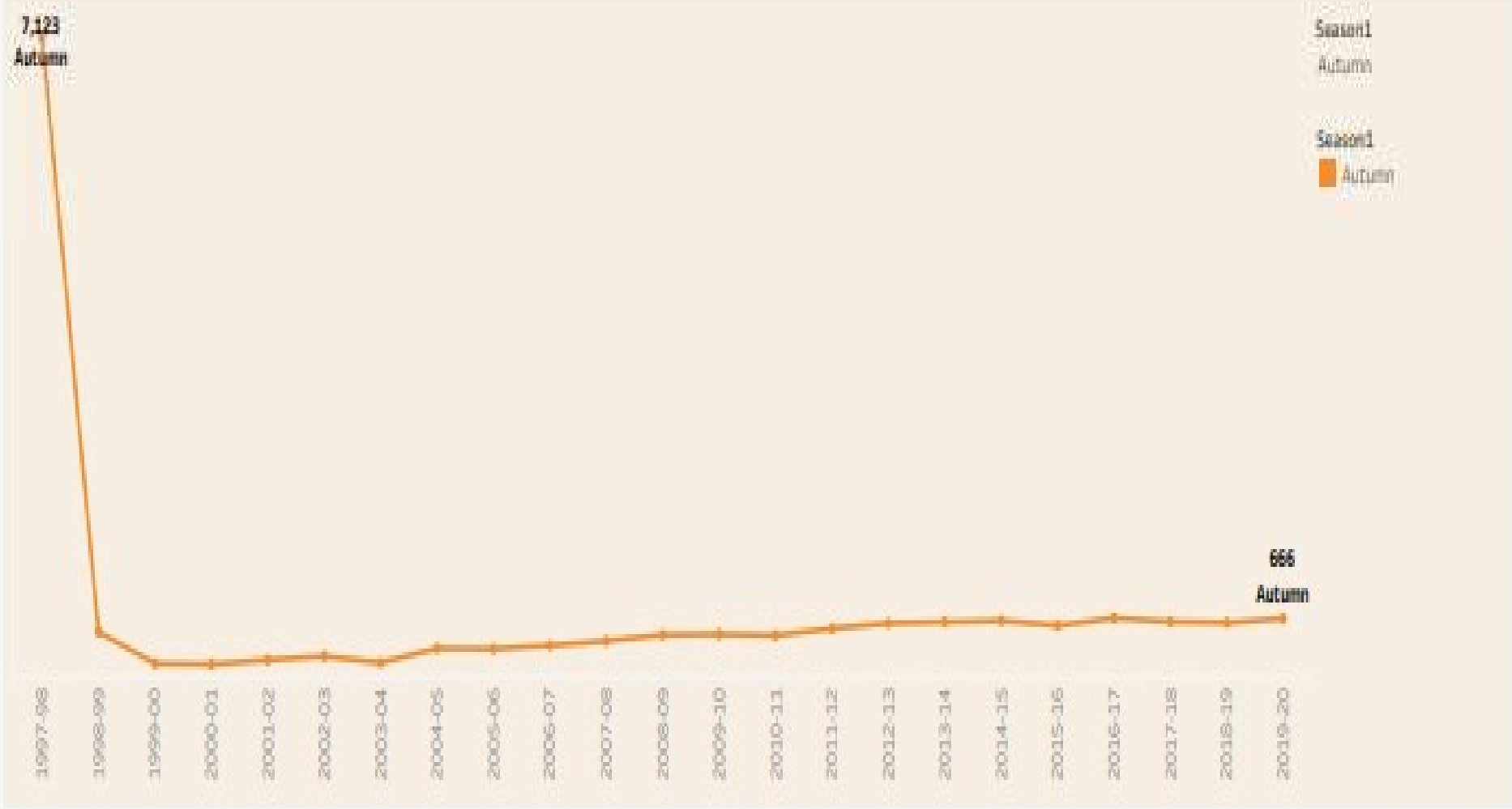

Insights into India is Agricultural Cultivation

Statewise Agricultural Land | Area Vs Production | Yield by Season | Major Crops | Crop Plantation by Area | Crop Plantation by count | Season wise production

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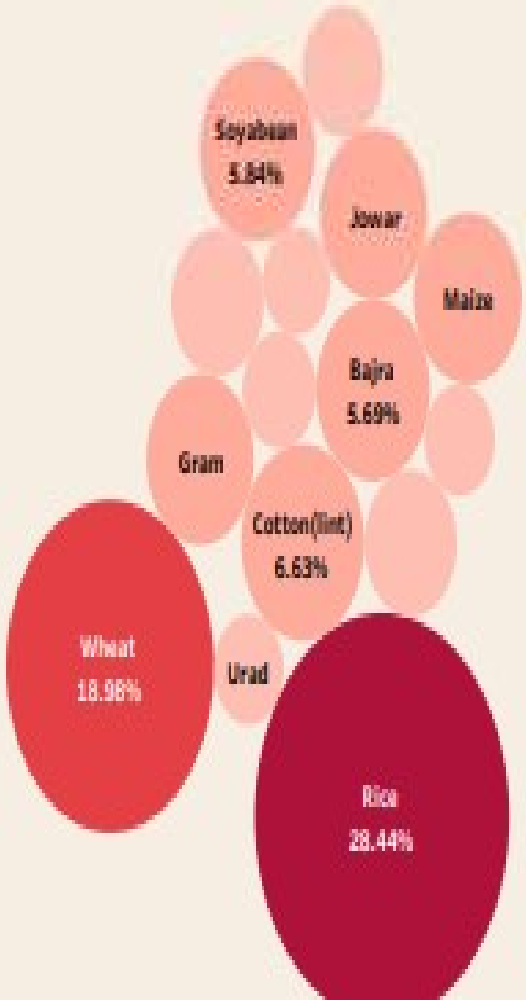

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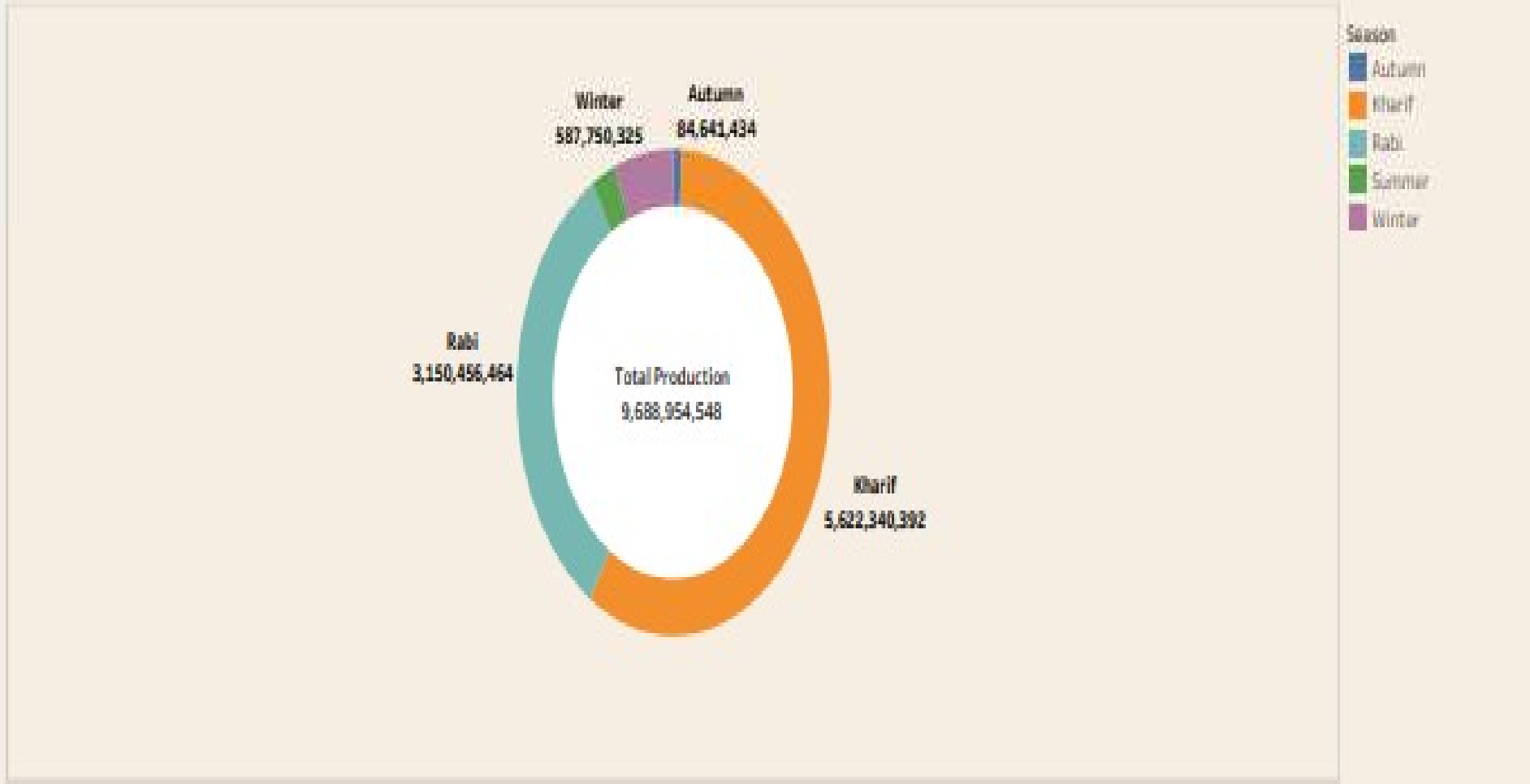

APPLICATIONS

- India's agriculture sector is primarily focused on food production, including rice, wheat, sugarcane, pulses, and various fruits and vegetables, to feed its large population.
- Livestock rearing, including cattle, poultry, and dairy farming, is an essential part of Indian agriculture, providing meat, milk, and other products.

CONCLUSION

- India's agriculture sector is the backbone of the country's economy, employing a significant portion of the population and contributing substantially to the GDP.
- It plays a critical role in ensuring food security for the nation by producing a wide variety of crops, from staples like rice and wheat to fruits and vegetables.

FUTURE SCOPE

The future scope of India's agriculture lies in embracing innovation and sustainability to meet the evolving needs of a growing population, while also addressing climate change challenges.


Thank
You