NAAN MUDHALVAN PROJECT REPORT

INDIA'S AGRICULTURAL CROP PRODUCTION ANALYSIS

1. Introduction

The report of India's Agricultural Crop Production Analysis, spanning the years from 1997 to 2021, aims to provide a comprehensive understanding of key aspects and trends within India's agricultural sector. Through the utilization of data visualization and interactivity with Tableau, readers will embark on an insightful journey into crop production, seasonal variations, regional distribution, and overarching production trends. The following sections will illuminate the purpose, problem definition, advantages, disadvantages, application, conclusion, and future scope of this project.

1.1. Overview

The project's primary objective is to offer a visually compelling and interactive analysis of India's agricultural crop production. By harnessing the power of Tableau, we present data that empowers stakeholders to make informed decisions. This report encapsulates the multifaceted story of India's agricultural landscape and provides a platform to explore it visually.

1.2. Purpose

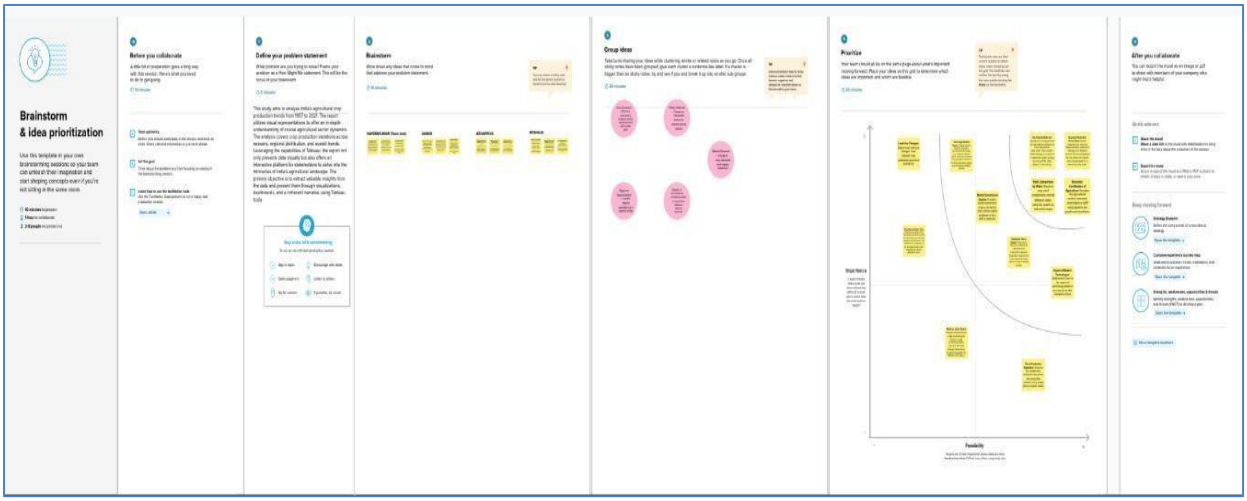
The purpose of this project is to empower stakeholders, from policymakers to agricultural experts, with the tools and insights necessary to navigate India's complex agricultural sector. By analyzing historical data, we aim to facilitate data-driven decisions, identify trends, and stimulate discussions on the future of agriculture in India.

2. Problem Definition and Design Thinking

Our project addresses the challenge of navigating the vast and intricate world of Indian agriculture. Through design thinking, we have created an interactive solution that aids users in exploring data intuitively, ensuring that insights are accessible and actionable. Under this heading we have defined a problem by using empathy map and Brainstorming map.

2.1. Empathy map

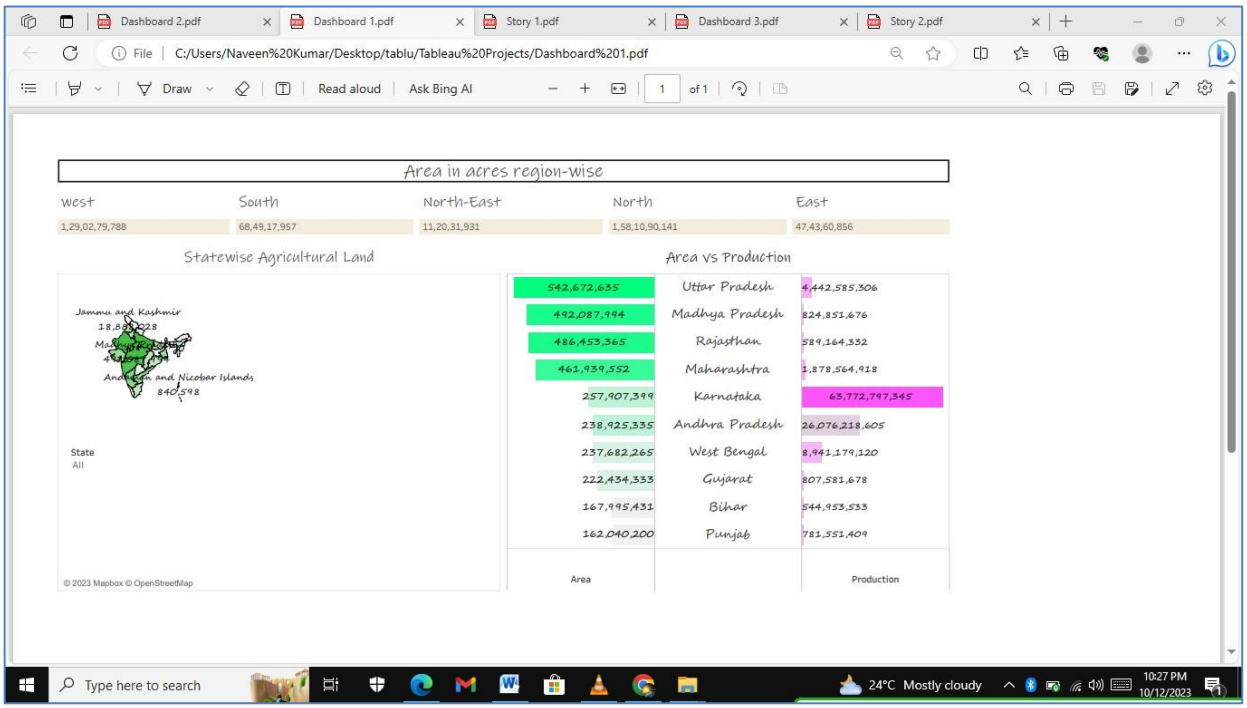
2.2. Brainstorm map



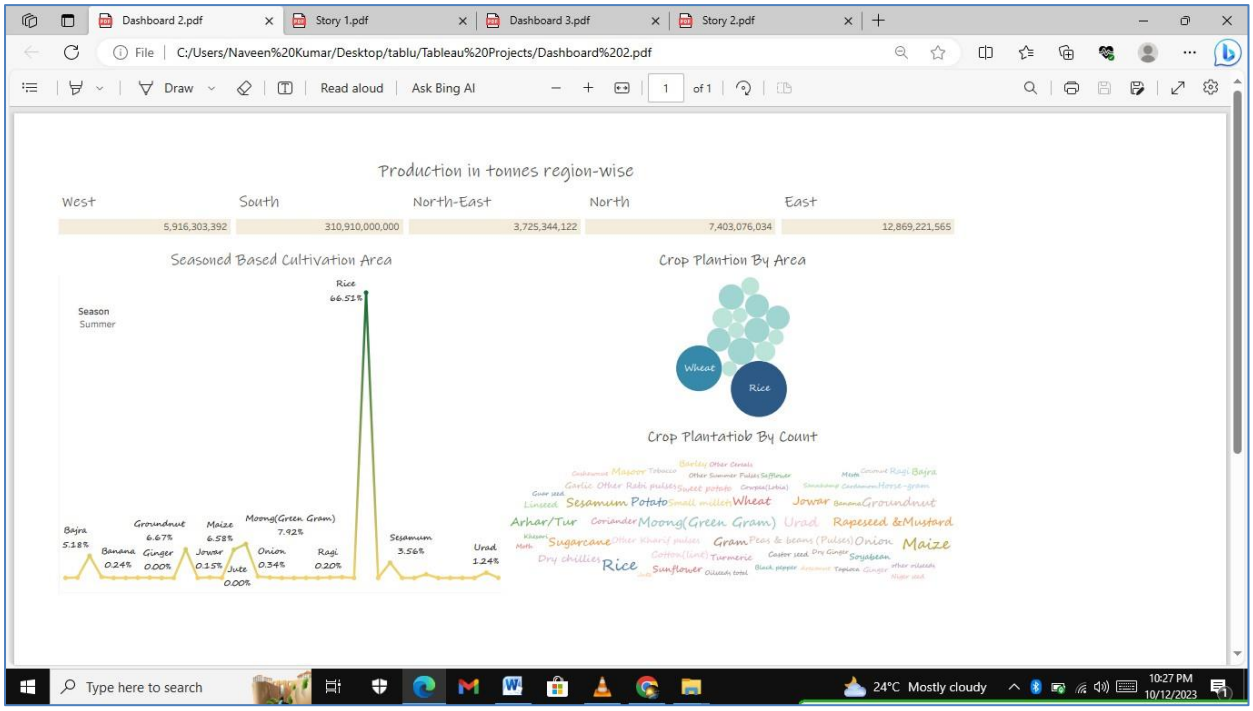
3. Result

Dashboard

3.1. Dashboard 1



3.2. Dashboard 2


Dashboard 2.pdf
Story 1.pdf
Dashboard 3.pdf
Story 2.pdf
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Draw
Read aloud
Ask Bing AI
Production in tonnes region-wise
West
South
North-East
North
East
5,916,303,392
310,910,000,000
3,725,344,122
7,403,076,034
12,869,221,565
Seasoned Based Cultivation Area
Season
Summer
Rice 66.51%
Bajra 5.18%
Banana 0.24%
Groundnut 6.67%
Ginger 0.00%
Maize 6.58%
Jowar 0.15%
Jute 0.00%
Moong(Green Gram) 7.92%
Onion 0.34%
Ragi 0.20%
Sesamum 3.56%
Urad 1.24%
Crop Plantion By Area
Wheat
Rice
Crop Plantatiob By Count
Sesamum
Potato
Wheat
Jowar
Groundnut
Arhar/Tur
Moong(Green Gram)
Urad
Rapeseed &Mustard
Sugarcane
Gram
Onion
Maize
Rice
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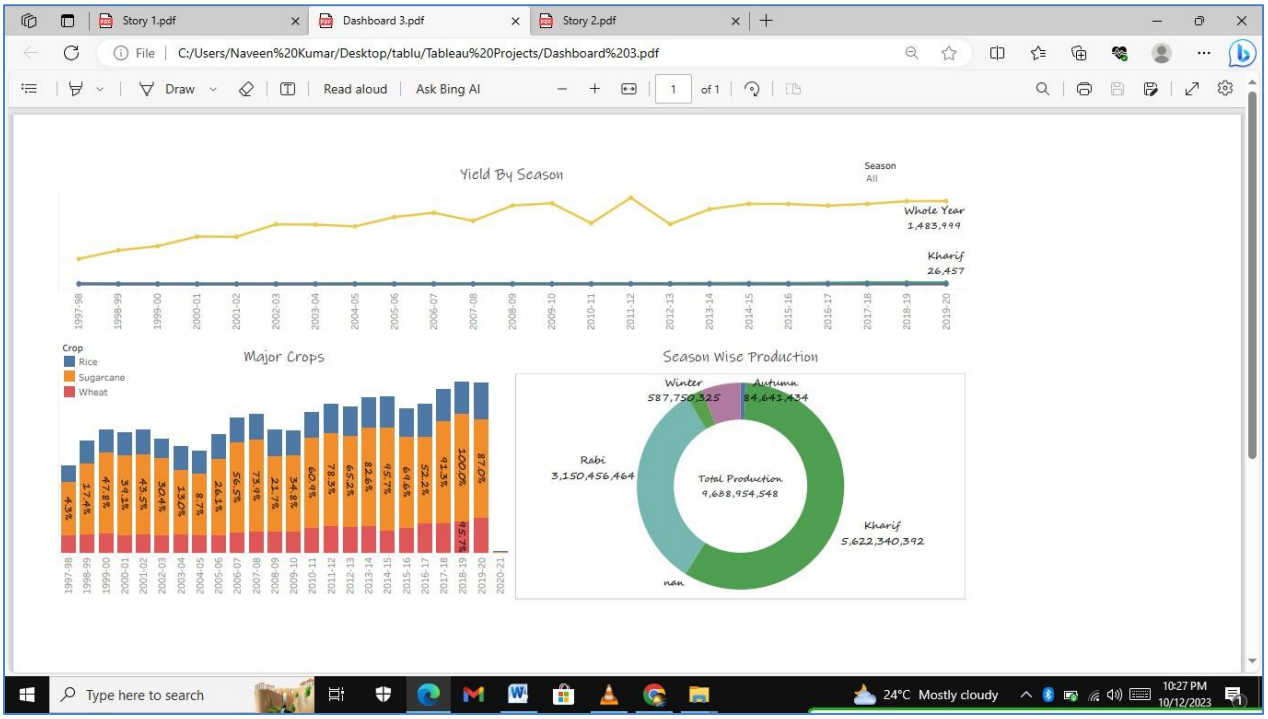
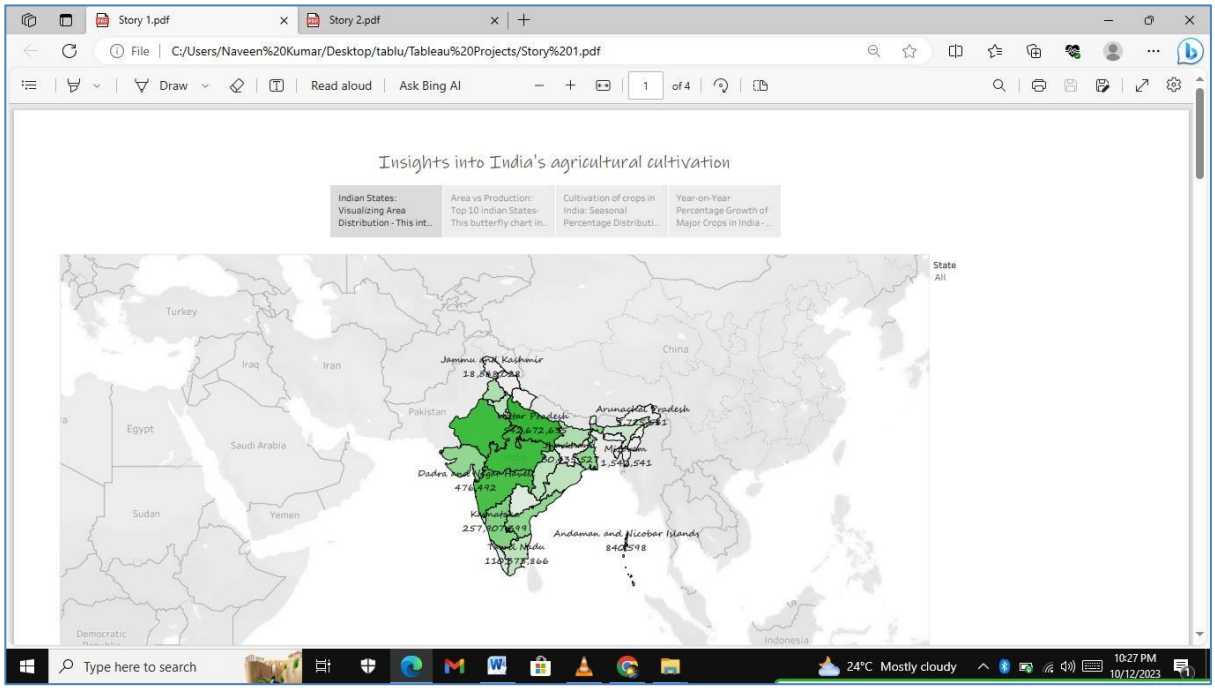
24°C Mostly cloudy
10:27 PM
10/12/2023

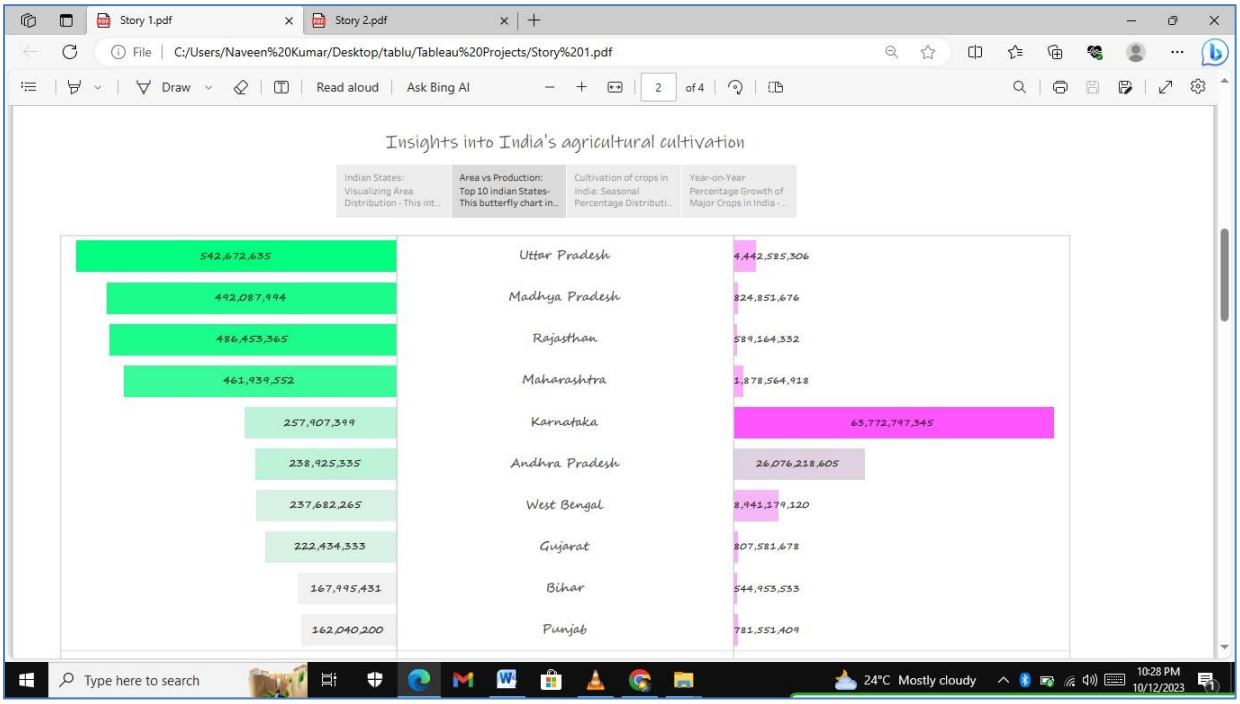
3.3. Dashboard 3



Story

3.4. Story 1

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C:/Users/Naveen%20Kumar/Desktop/tablu/Tableau%20Projects/Story%201.pdf
Insights into India's agricultural cultivation
Indian States: Visualizing Area Distribution - This int..
Area vs Production: Top 10 indian States- This butterfly chart in..
Cultivation of crops in India: Seasonal Percentage Distributi..
Year-on-Year Percentage Growth of Major Crops in India - ..
542,672,635
Uttar Pradesh
4,442,585,306
492,087,994
Madhya Pradesh
824,851,676
486,453,365
Rajasthan
589,164,332
461,939,552
Maharashtra
1,878,564,918
257,907,399
Karnataka
63,772,797,345
238,925,335
Andhra Pradesh
26,076,218,605
237,682,265
West Bengal
8,441,179,120
222,434,333
Gujarat
807,581,678
167,995,431
Bihar
544,953,533
162,040,200
Punjab
781,551,409
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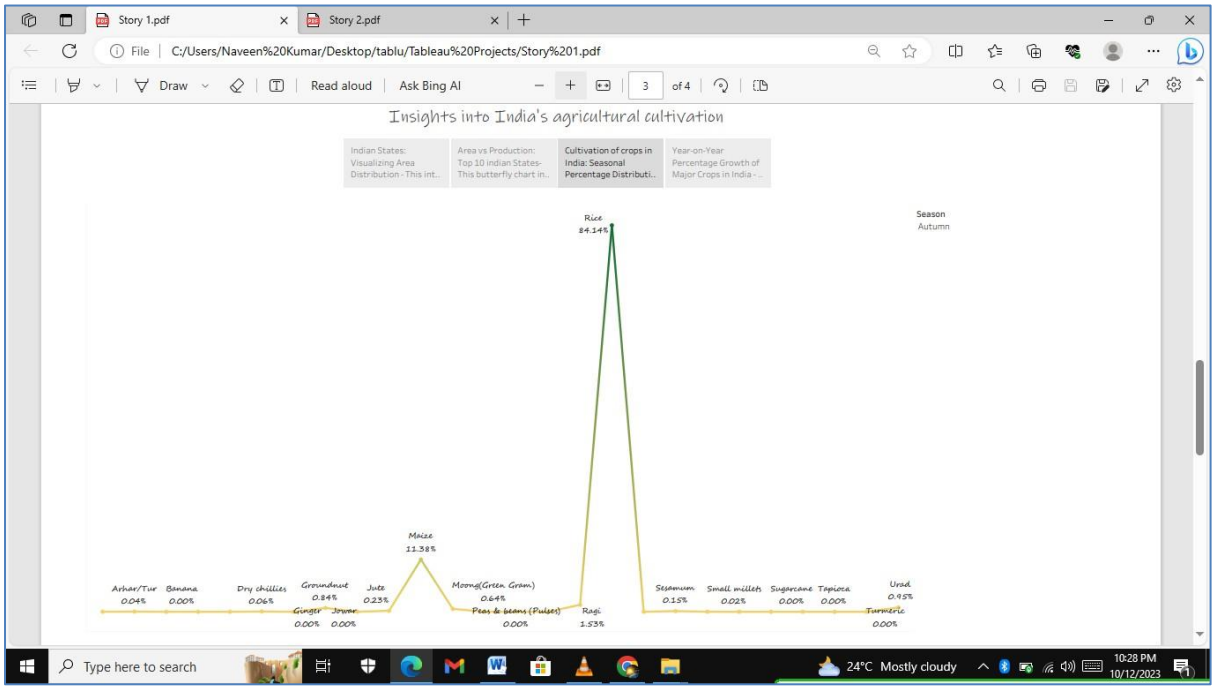
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Cultivation of crops in India: Seasonal Percentage Distributi..
Year-on-Year Percentage Growth of Major Crops in India - ..
Rice
84.14%
Season
Autumn
Maize
11.38%
Arhar/Tur 0.04%
Banana 0.00%
Dry chillies 0.06%
Groundnut 0.84%
Ginger 0.00%
Jowar 0.00%
Jute 0.23%
Moong(Green Gram) 0.64%
Peas & beans (Pulses) 0.00%
Ragi 1.53%
Sesamum 0.15%
Small millets 0.02%
Sugarcane 0.00%
Tapioca 0.00%
Urad 0.95%
Turmeric 0.00%
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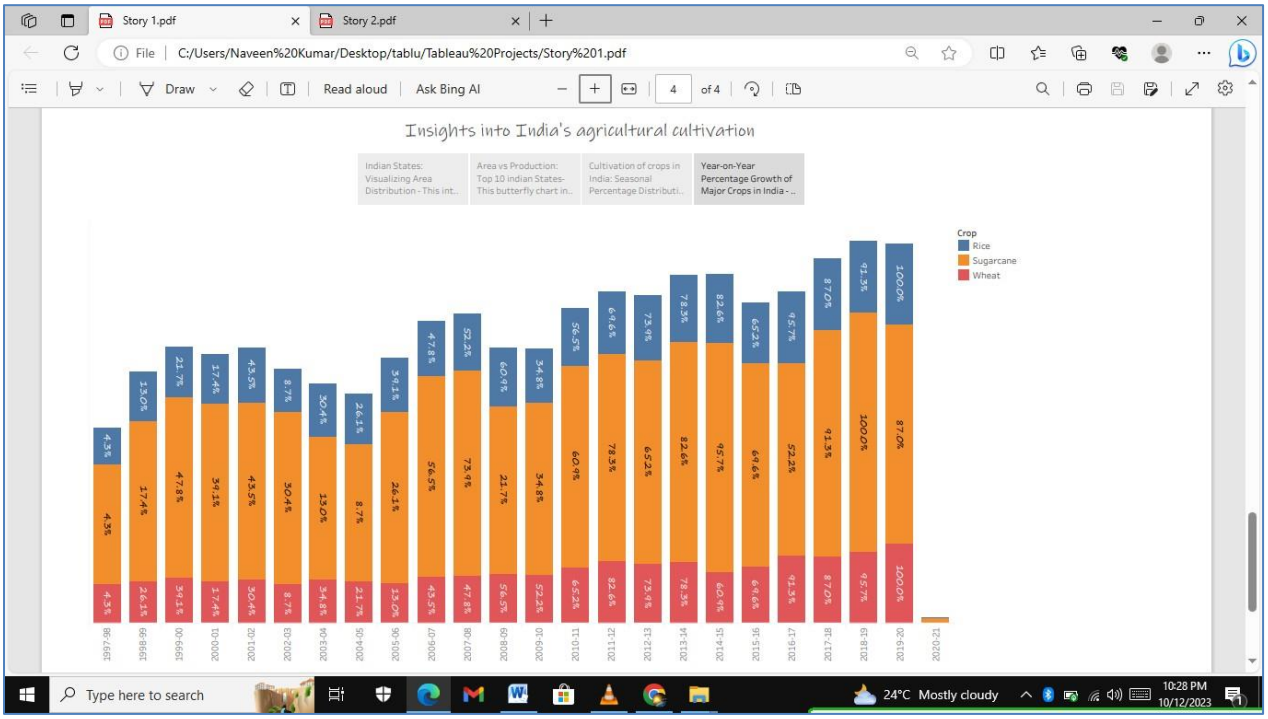
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Crop
Rice
Sugarcane
Wheat
Type here to search
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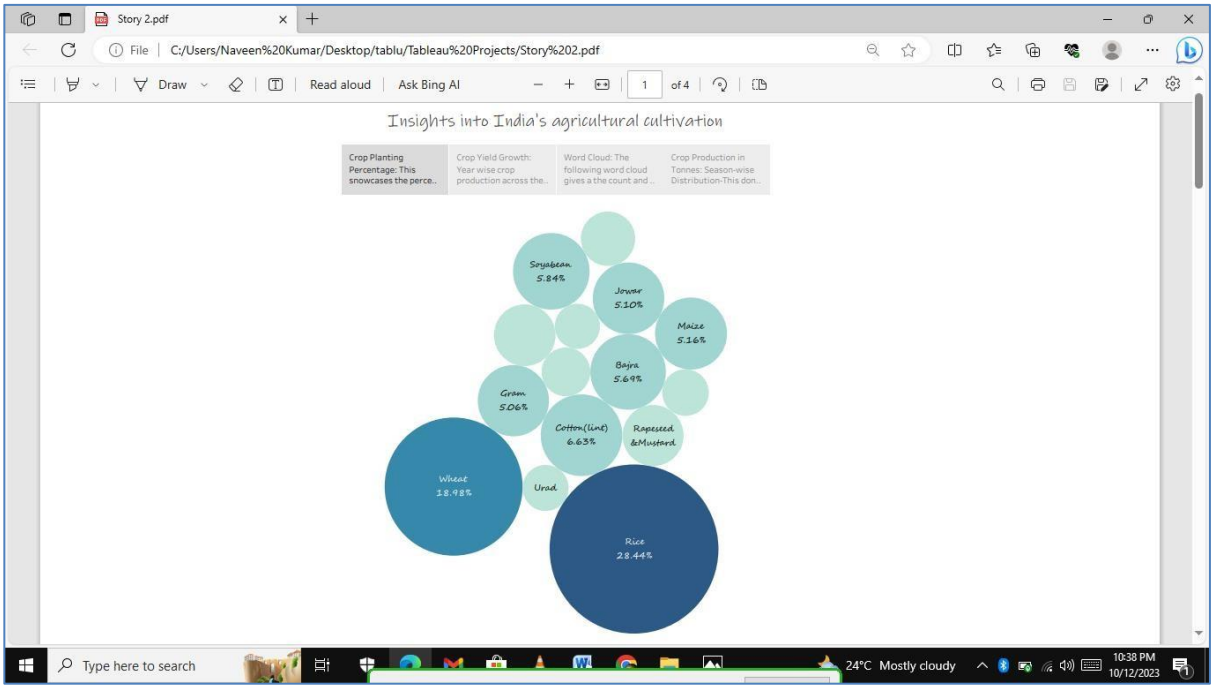
3.5. Story 2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Insights into India's agricultural cultivation
Crop Planting Percentage: This snowcases the perce...
Crop Yield Growth: Year wise crop production across the...
Word Cloud: The following word cloud gives a the count and ...
Crop Production in Tonnes: Season-wise Distribution-This don...
Soyabean 5.84%
Jowar 5.10%
Maize 5.16%
Bajra 5.69%
Gram 5.06%
Cotton(lint) 6.63%
Rapeseed &Mustard
Wheat 18.98%
Urad
Rice 28.44%
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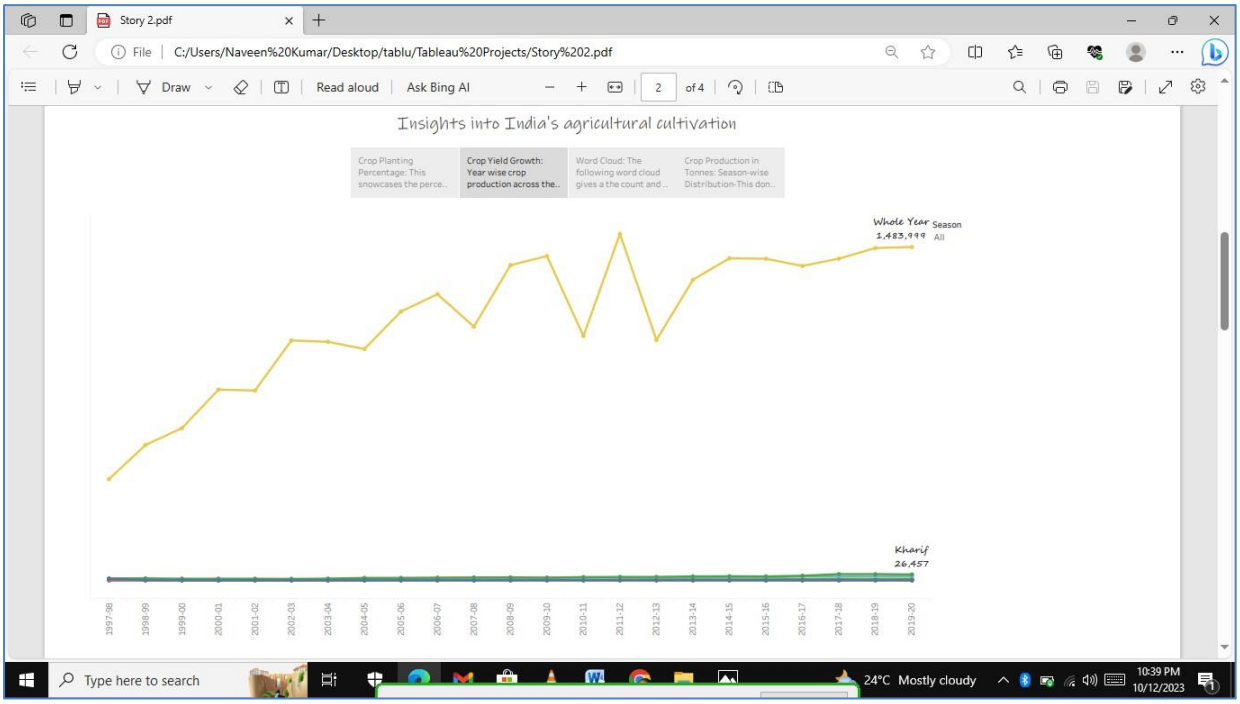
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Draw | Read aloud | Ask Bing AI
2 of 4
Insights into India's agricultural cultivation
Crop Planting Percentage: This snowcases the perce..
Crop Yield Growth: Year wise crop production across the..
Word Cloud: The following word cloud gives a the count and ..
Crop Production in Tonnes: Season-wise Distribution-This don..
Whole Year 1,483,999
Season All
Kharif 26,457
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
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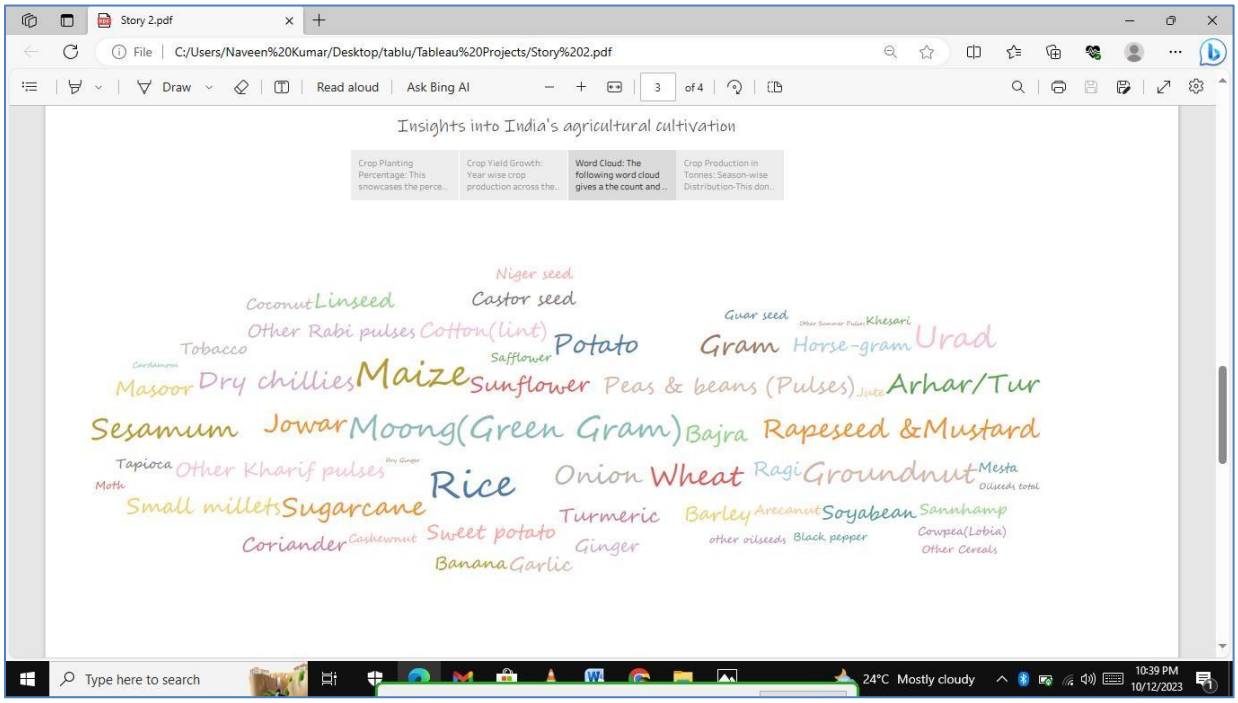
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3 of 4
Insights into India's agricultural cultivation
Crop Planting Percentage: This snowcases the perce..
Crop Yield Growth: Year wise crop production across the..
Word Cloud: The following word cloud gives a the count and ..
Crop Production in Tonnes: Season-wise Distribution-This don..
Niger seed
Coconut
Linseed
Castor seed
Guar seed
Khesari
Other Rabi pulses
Cotton(lint)
Potato
Gram
Horse-gram
Urad
Tobacco
Safflower
Masoor
Dry chillies
Maize
Sunflower
Peas & beans (Pulses)
Jute
Arhar/Tur
Sesamum
Jowar
Moong(Green Gram)
Bajra
Rapeseed &Mustard
Tapioca
Other Kharif pulses
Dry Ginger
Moth
Rice
Onion
Wheat
Ragi
Groundnut
Mesta
Oilseeds total
Small millets
Sugarcane
Turmeric
Barley
Arecanut
Soyabean
Sannhamp
Coriander
Cashewnut
Sweet potato
Ginger
other oilseeds
Black pepper
Cowpea(Lobia)
Other Cereals
Banana
Garlic
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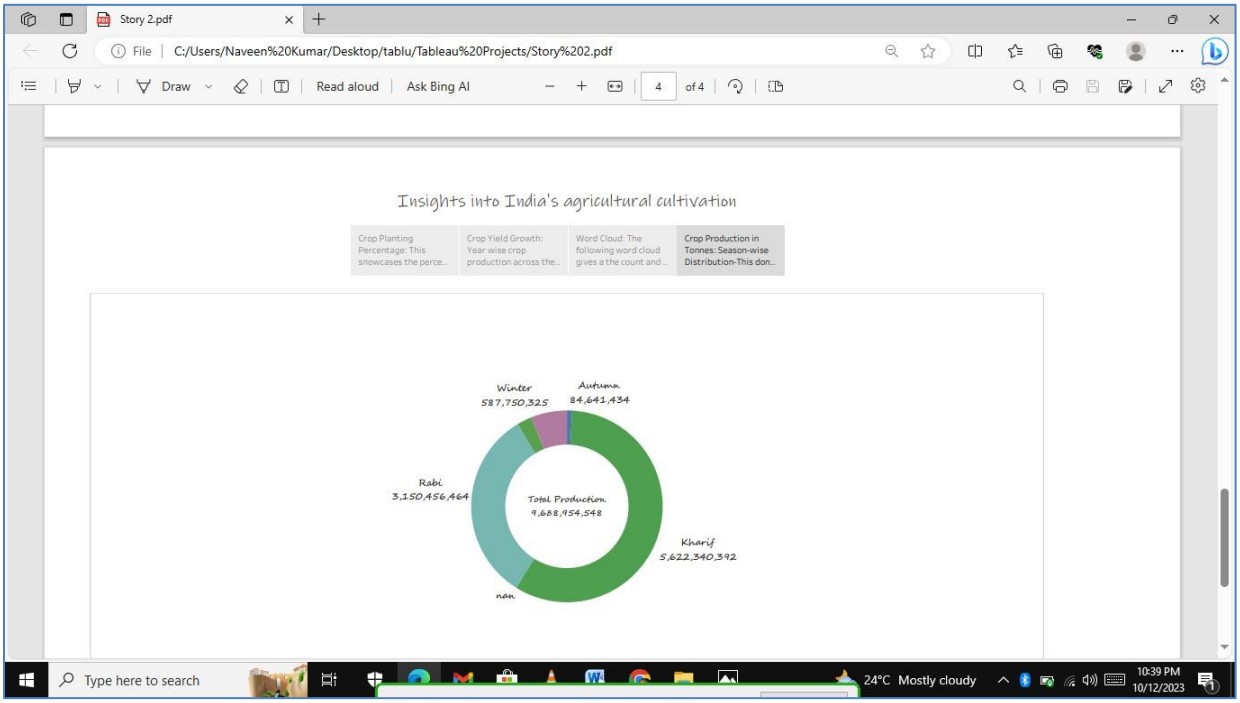

4. Advantages and Disadvantages

Advantages of this project include enhanced data visualization, interactivity, and an accessible platform for data-driven decision-making. However, it's important to note that potential disadvantages may arise from data accuracy and availability challenges.

5. Application

The insights derived from this project have wide-ranging applications. It can inform policy decisions related to agriculture, guide investments in the sector, and serve as an educational tool to understand regional agricultural dynamics. It also provides a framework for assessing the impact of changing climate patterns on crop production.

6. Conclusion

In conclusion, this project has unveiled the vast potential within India's agricultural sector. We've harnessed the power of data visualization through Tableau to provide a comprehensive, accessible, and interactive exploration of crop production trends. This project represents a stepping stone towards more data-informed and sustainable agricultural practices in India.

7. Future Scope

Looking ahead, the project's future scope is vast. We envision incorporating real-time data, expanding the range of agricultural aspects covered, and further enhancing user-friendliness. Future iterations willaim to create an even more powerful tool for stakeholders, making it an indispensable resource for decision-making, research, and insights in the realm of Indian agriculture.