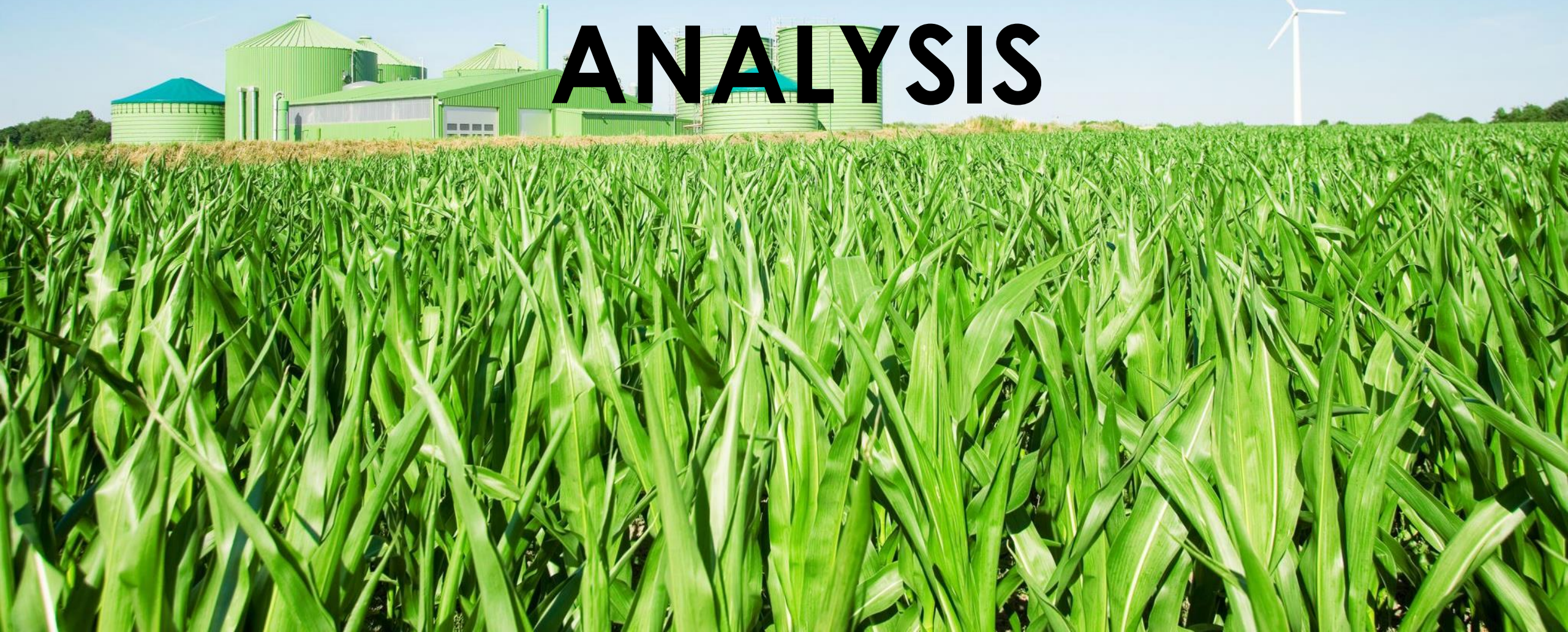


CROP PRODUCTION ANALYSIS



PROJECT DETAILS

Project	<i>Crop Production Analysis</i>
Technology	<i>Data Science</i>
Domain	<i>Agriculture</i>
Project Difficulty Level	<i>Advanced</i>
Programming Languages	<i>Python</i>
Tools	<i>Jupyter Notebook MS Excel</i>

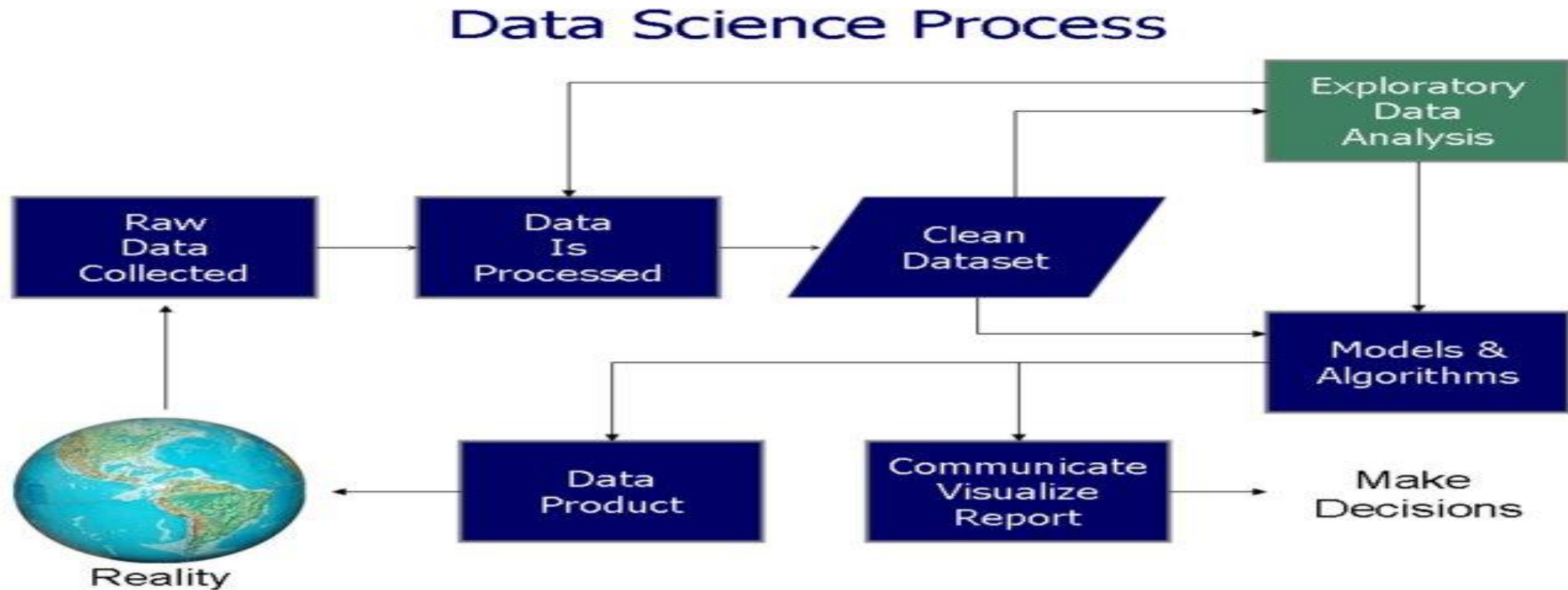
OBJECTIVE

- ❑ *The goal of this project is to analyse the crops, based on a combination of features that describes the production*

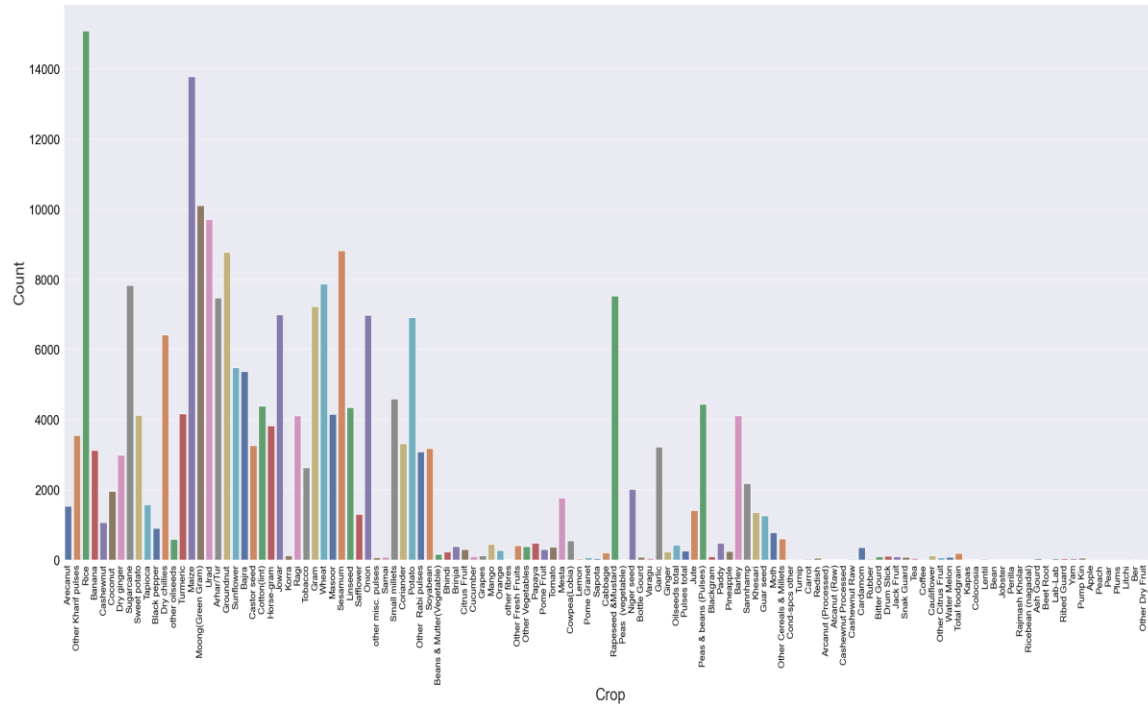
PROBLEM STATEMENT

- ☐ The Agriculture business domain, as a vital part of the overall supply chain, is
- ☐ expected to highly evolve in the upcoming years via the developments, which are taking place on the side of the Future Internet.
- ☐ This dataset provides a huge amount of information on crop production in India ranging from several years.
- ☐ Based on the Information the ultimate goal would be to predict crop production and find important insights highlighting key indicators and metrics that influence crop production.

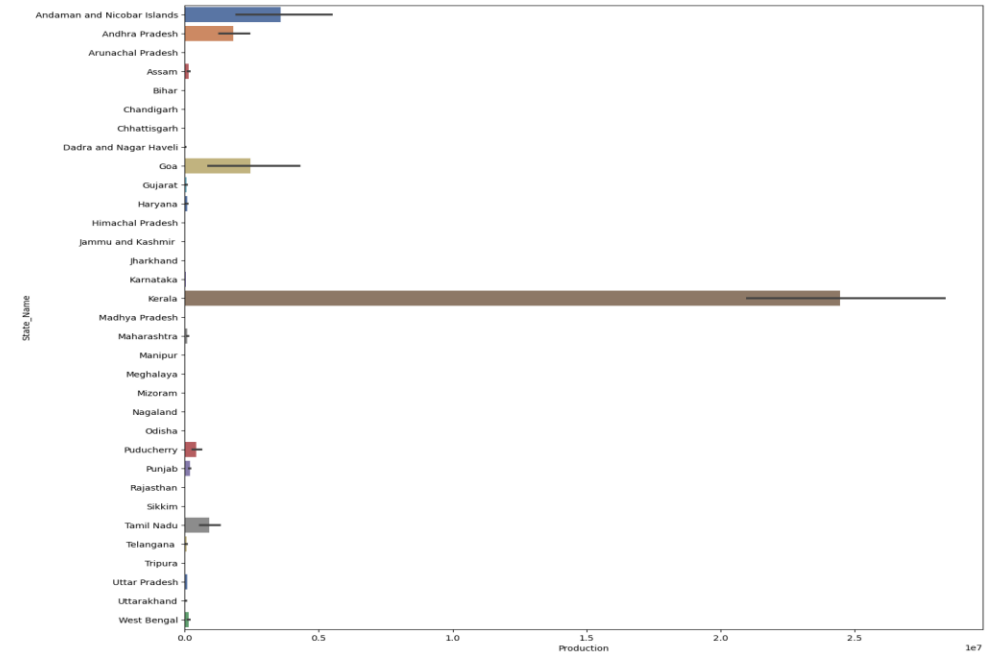
ARCHITECTURE



INSIGHTS

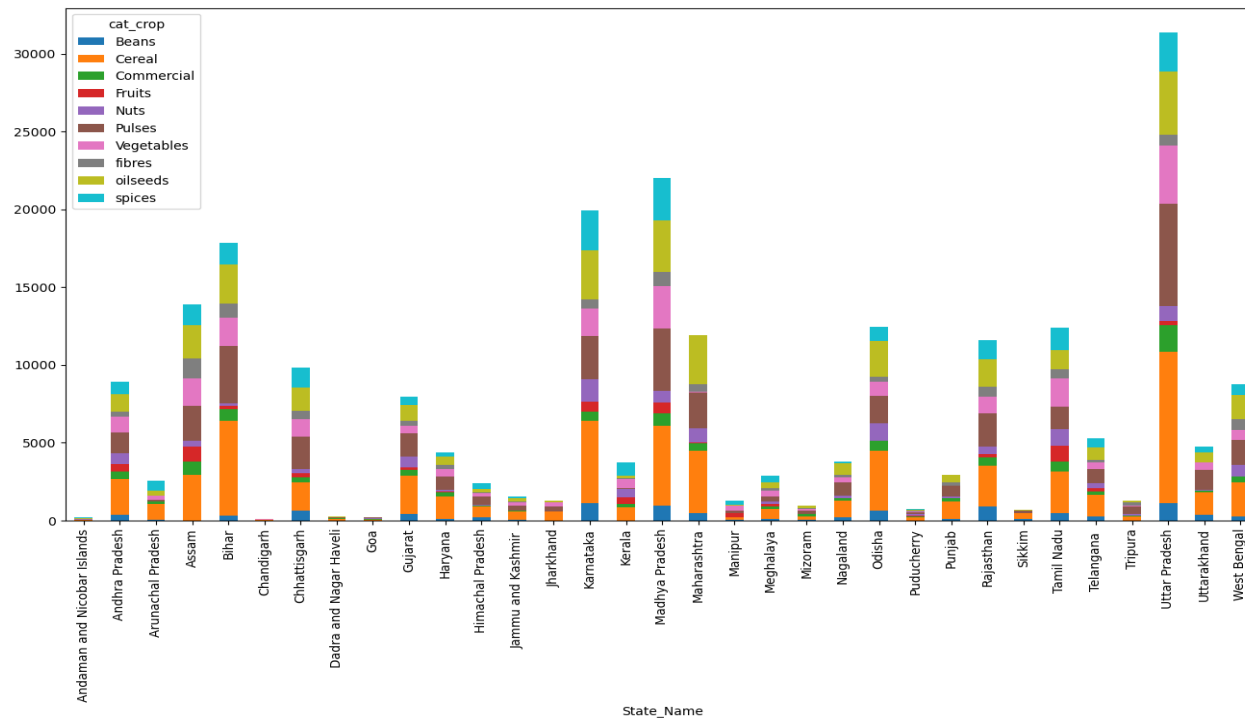


❖ The Highest crops are cultivated in India are Rice and Maize

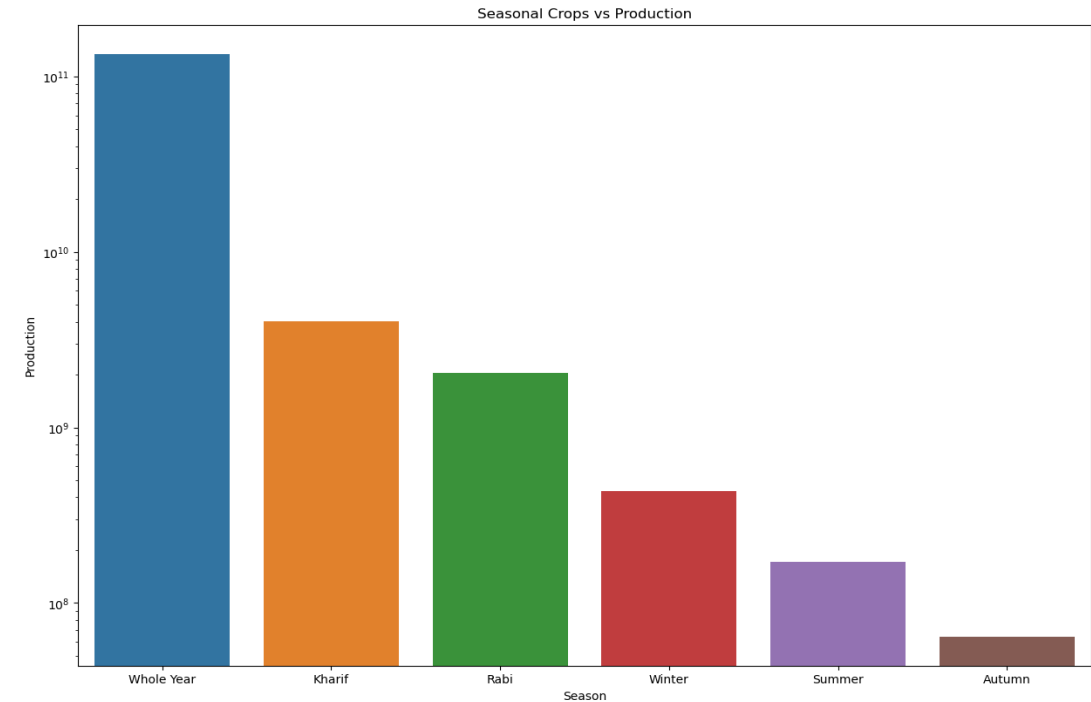


❖ Kerala is the top in crop production from 1997 to 2015 i.e 19 years

TYPES OF CROPS AND SEASONAL CROPS



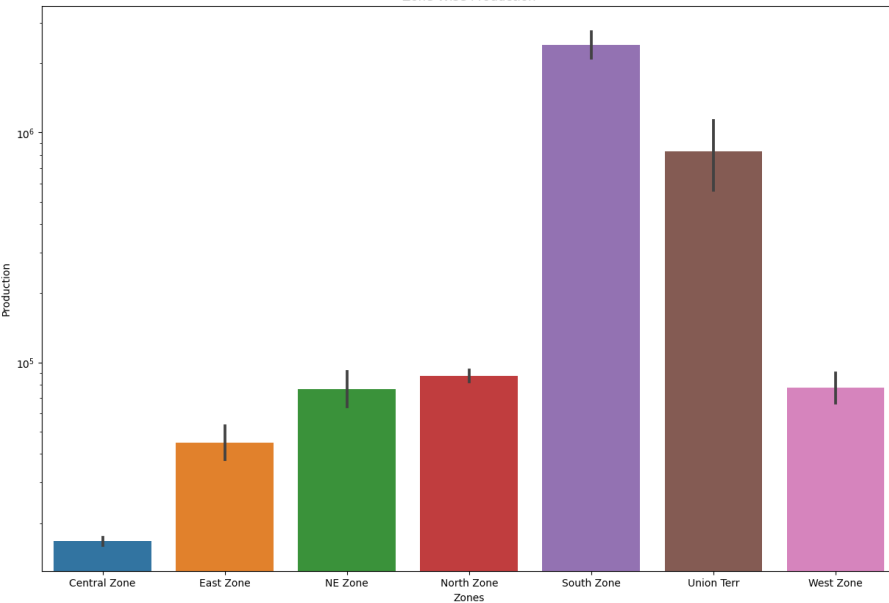
- ❑ Uttar Pradesh is topping in producing more crop categories than any other Indian state.



- ❑ Top crop categories which shows high production values are Whole Year(Annual growing plants), Kharif and Rabi crops.

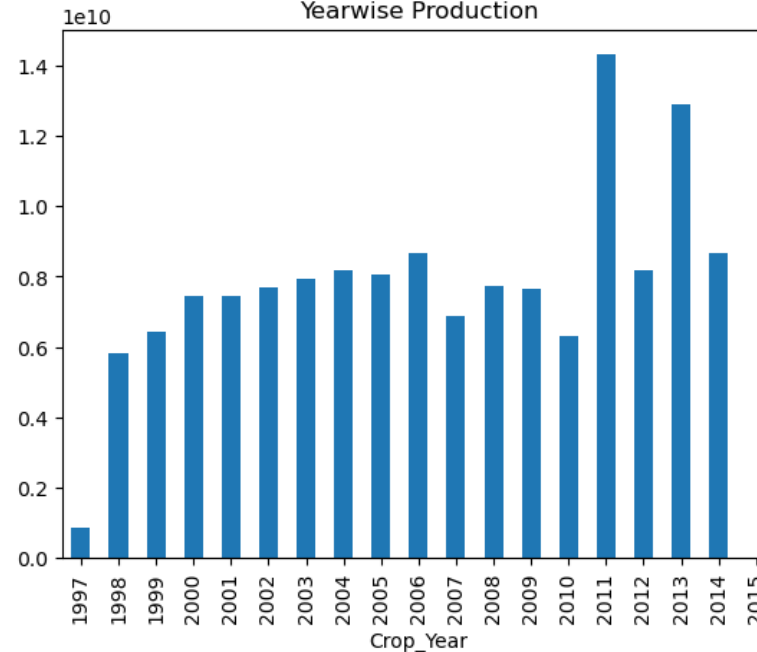
REGION WISE PRODUCTION

Zone-Wise Production



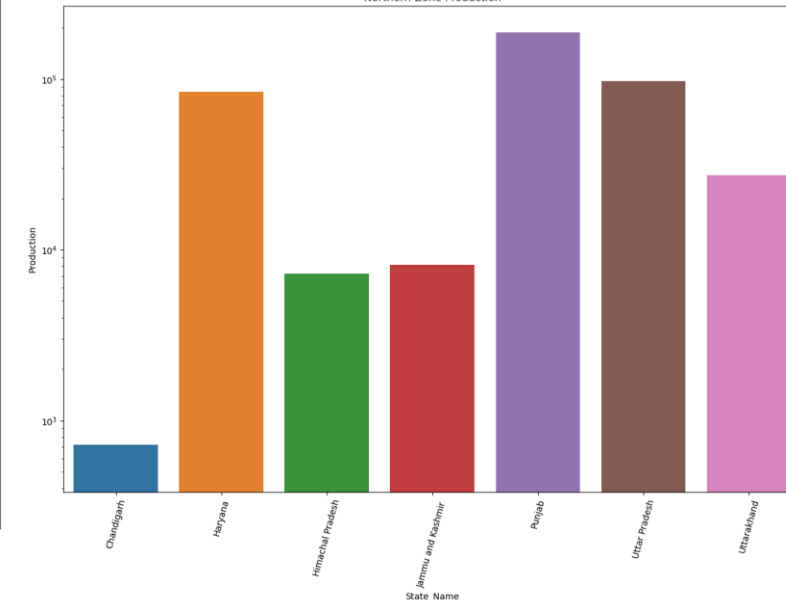
- ❑ Top Region in Production is South Region
- ❑ In south Kerala is highest in production

Yearwise Production



- ❑ High productive years are 2011, 2013 and 2014.

Northern-Zone Production



Production wise top states of North zone are : Punjab,Uttar Pradesh, Haryana

KEY PERFORMANCE INDICATORS(KPI)

- ☐ States wise distribution of production
- ☐ Types of crops in different states
- ☐ Distribution of production in different years
- ☐ Relationship between Area and Production
- ☐ Seasonal distribution of crops
- ☐ Region wise crop production

CONCLUSION

- ❑ There are lot of outliers in both Area and Production
- ❑ The Highest crops are cultivated in India are Rice and Maize
- ❑ There is no high correlation between Area and Production
- ❑ Kerala is the top in crop production from 1997 to 2015 i.e 19 years
- ❑ Top crop categories which shows high production values are Whole Year(Annual growing plants), Kharif and Rabi crops.
- ❑ commercial and cereal crops has more production
- ❑ Top Zone in Production is South Zone
- ❑ Top production in South India states are Kerala, Andhra Pradesh and Tamil Nadu
- ❑ Top Crops Production wise are: Coconut, Sugarcane and Rice
- ❑ High productive years are 2011, 2013 and 2014.
- ❑ Uttar Pradesh is topping in producing more crop categories than any other Indian state.
- ❑ Top crops in North are:Sugarcane,Wheat and Rice

THANK YOU

