

Analysis and Estimation(Data Visualization Charts)

Date	05 November 2022
Team ID	PNT2022TMID32482
Project Name	ESTIMATION OF CROP YIELD USING DATA ANALYTICS

Data Visualization Charts:

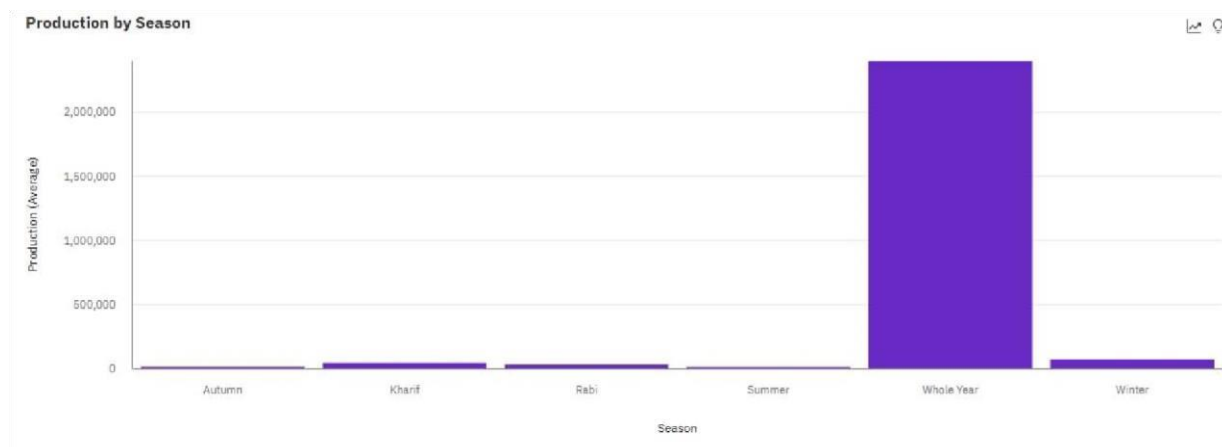
Using the Crop production in Indian dataset, we plan to create various graphs and charts to highlight the insights and visualizations.

- * Build a Visualization to showcase Average Crop Production by Seasons.
- * Showcase the Yearly usage of Area in Crop Production.
- * Build a visualization to show case top 10 States in Crop Yield Production by Area.
- * Build the required Visualization to showcase the Crop Production by State.
- * Build Visual analytics to represent the States with Seasonal Crop Production using a Text representation

Dataset Link : [Dataset](#)

Seasons With Average Productions:

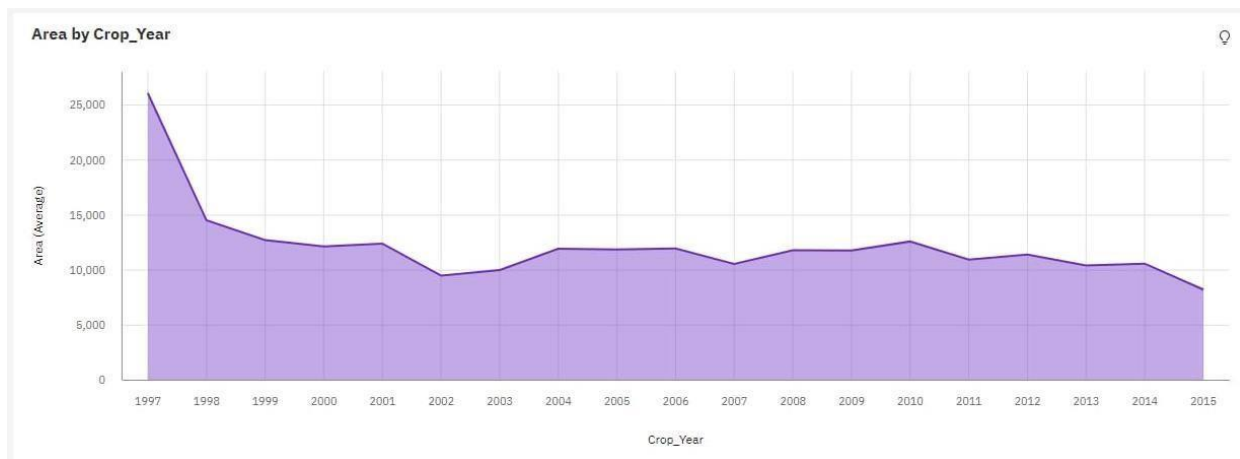
As production of crops depends on different seasons, so let's plot the graphs to visualize the average production based on different seasons.



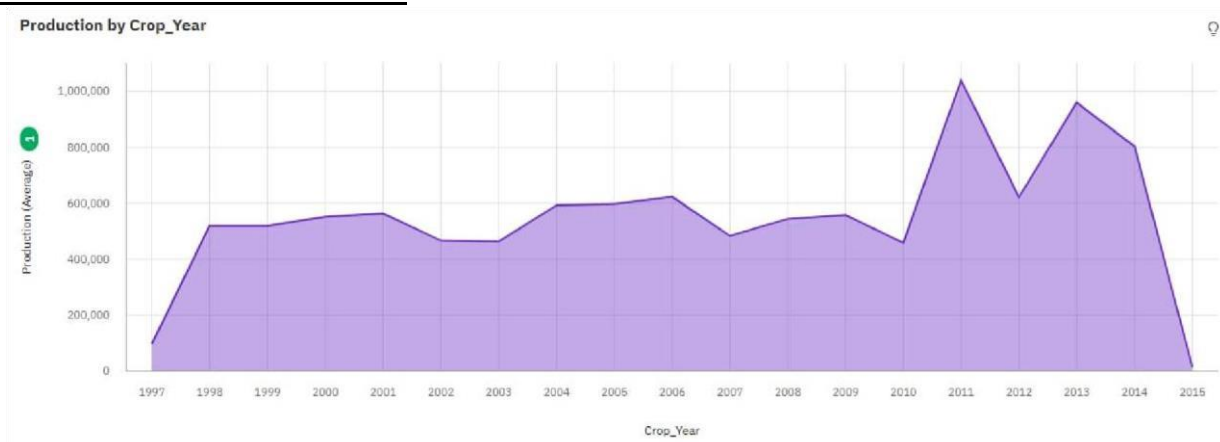
With Years Usage Of Area And Production:

In our dataset we also have a year's columns by which we will plot a line and area graphs to see the change in these both data with respect to increase in years.

AREA BY CROP YEAR:

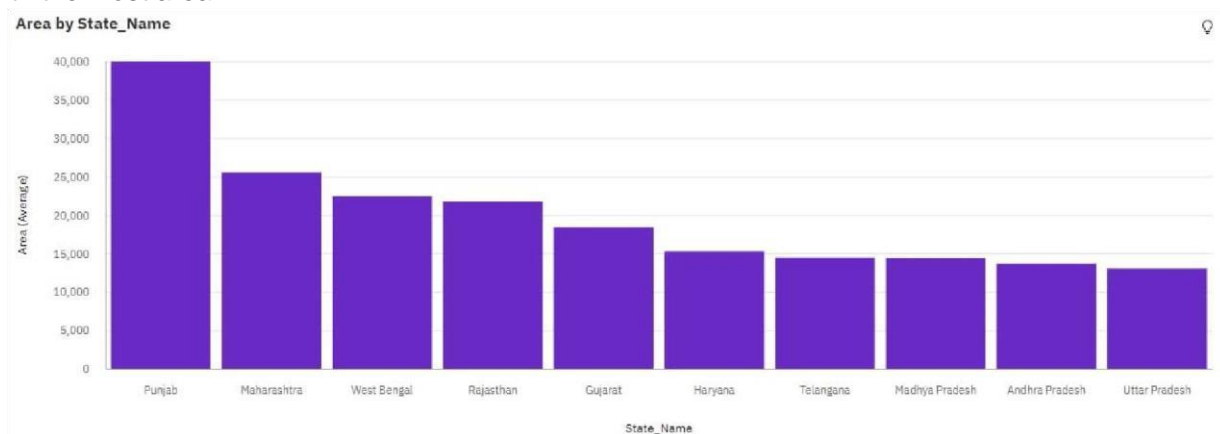


PRODUCTION BY CROP YEAR:



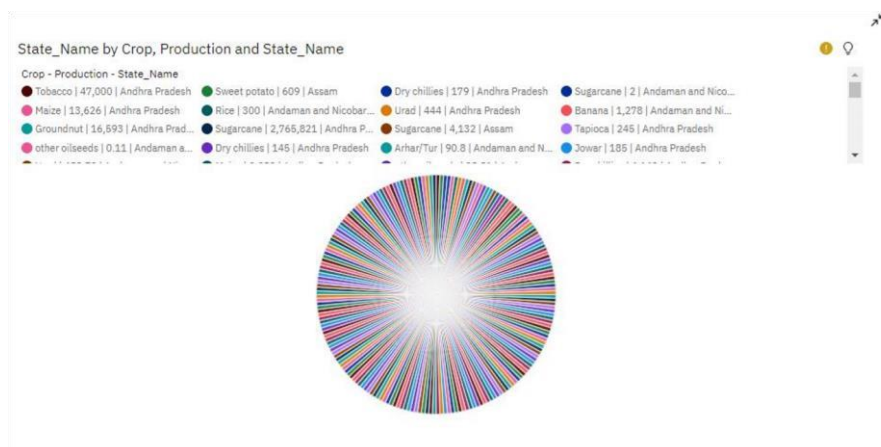
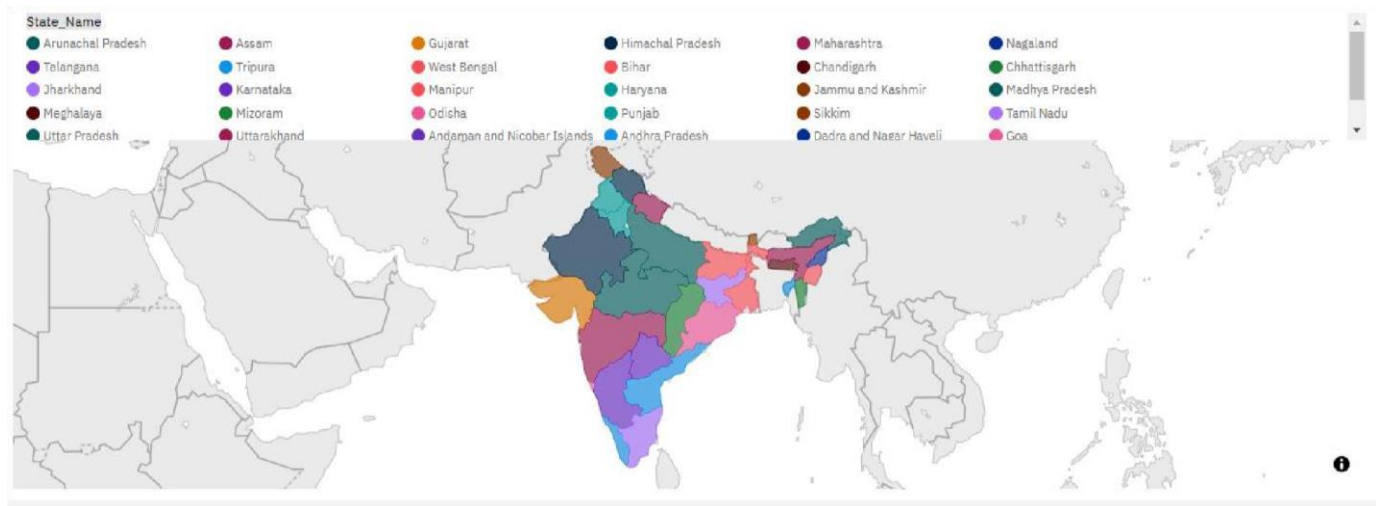
Top 10 States With Most Area:

As we have an area data in our dataset, we will be plotting some graphs to visualize the top 10 Indian states with the most area.



State With Crop Production:

There are so many different crops produced in Indian and most of us don't know which crop belongs to which state so we will be plotting and highlighting the states in map according to different crops.



States With The Crop Production Along With Season (Text Table):

Taking forward the previous plot we will be fetching the state name and showing it in a text table whenever different crops are chosen. The following is a table consist of:

- 1) State with the crop production
- 2) Season with the crop production

State_Name and Crop

Crop	State_Name
Apple	Tamil Nadu
Arca nut (Processed)	Karnataka
Areca nut	Andaman and Nicobar Islands
	Andhra Pradesh
	Assam
	Goa
	Karnataka
	Kerala
	Meghalaya
	Puducherry

Season and Crop

Crop	Season
Apple	Whole Year
Arca nut (Processed)	Whole Year
Areca nut	Kharif
	Rabi
	Whole Year
Arhar/Tur	Autumn
	Kharif
	Rabi
	Summer
	Whole Year
	Whole Year