

Team ID PNT2022TMID20029

Project Name Project - Estimate the crop yield using Data Analytics

Understanding the Dataset

This project is based on a understanding the crop production of India .Download the dataset from the below link. It has 2,46,092 data points (rows) and 6 features (columns) describing each crop production related details.

Dataset Link :[Dataset](#)

Let's understand the data we're working with and give a brief overview of what each feature represents or should represent

1. State Name - All the Indian State names.

2. District Name -Different District names.

3. Crop Year- contains the crop years.

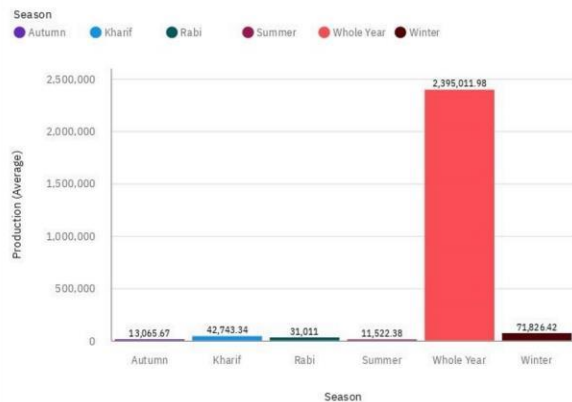
4. Season – Different seasons for crop production.

5. Area- Total number of areas covered.

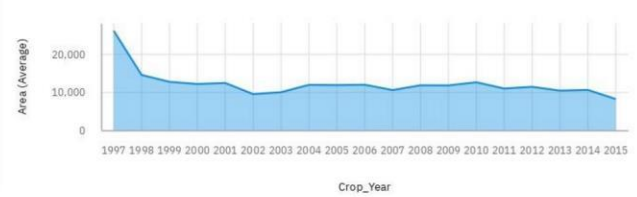
6. Production- production of crops.

State_Nar	District_N	Crop_Year	Season	Crop	Area	Production
Andaman	NICOBARS	2000	Kharif	Arecanut	1254	2000
Andaman	NICOBARS	2000	Kharif	Other Kha	2	1
Andaman	NICOBARS	2000	Kharif	Rice	102	321
Andaman	NICOBARS	2000	Whole Ye	Banana	176	641
Andaman	NICOBARS	2000	Whole Ye	Cashewnu	720	165
Andaman	NICOBARS	2000	Whole Ye	Coconut	18168	65100000
Andaman	NICOBARS	2000	Whole Ye	Dry ginger	36	100
Andaman	NICOBARS	2000	Whole Ye	Sugarcane	1	2
Andaman	NICOBARS	2000	Whole Ye	Sweet pot	5	15
Andaman	NICOBARS	2000	Whole Ye	Tapioca	40	169
Andaman	NICOBARS	2001	Kharif	Arecanut	1254	2061
Andaman	NICOBARS	2001	Kharif	Other Kha	2	1
Andaman	NICOBARS	2001	Kharif	Rice	83	300
Andaman	NICOBARS	2001	Whole Ye	Cashewnu	719	192
Andaman	NICOBARS	2001	Whole Ye	Coconut	18190	64430000
Andaman	NICOBARS	2001	Whole Ye	Dry ginger	46	100
Andaman	NICOBARS	2001	Whole Ye	Sugarcane	1	1
Andaman	NICOBARS	2001	Whole Ye	Sweet pot	11	33
Andaman	NICOBARS	2002	Kharif	Rice	189.2	510.84
Andaman	NICOBARS	2002	Whole Ye	Arecanut	1258	2083
Andaman	NICOBARS	2002	Whole Ye	Banana	213	1278
Andaman	NICOBARS	2002	Whole Ye	Black pepi	63	13.5

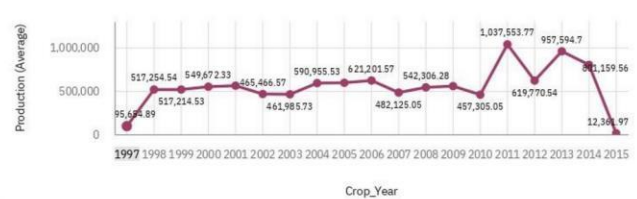
Production by Season colored by Season



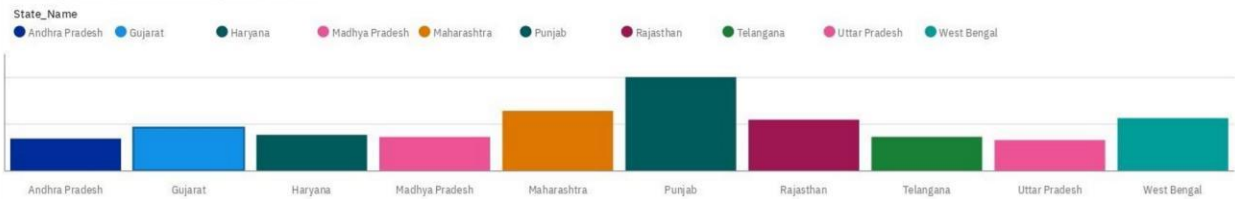
Area by Crop_Year



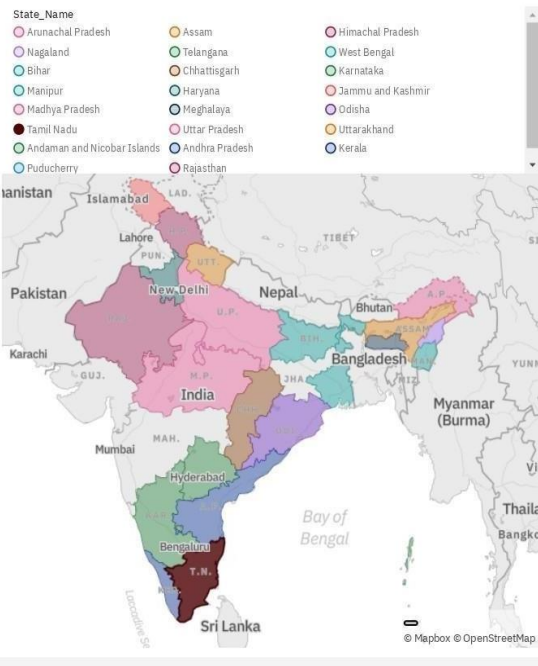
Production by Crop_Year



Area by State_Name colored by State_Name



State_Name regions



State_Name and Crop

Crop	State_Name
Gram	Nagaland
	Odisha
	Punjab
	Rajasthan
	Tamil Nadu
	Telangana
	Tripura
	Uttar Pradesh

Season and Crop

Crop	Season
Grapes	Whole Year
	Kharif