

## Understanding The Dataset

Team ID	PNT2022TMID53366
Project Name	Estimate the Crop Yield using Data Analytics

### Dataset: crop\_production.csv

The dataset has 2,46,092 data points (rows) and 6 features (columns) describing each crop production related details.

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.

	A	B	C	D	E	F	G	H
1	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production	
2	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Arecanut	1254	2000	
3	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Other Kharif pulses	2	1	
4	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Rice	102	321	
5	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Banana	176	641	
6	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Cashewnut	720	165	
7	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Coconut	18168	65100000	
8	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Dry ginger	36	100	
9	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sugarcane	1	2	
10	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sweet potato	5	15	
11	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Tapioca	40	169	
12	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Arecanut	1254	2061	
13	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Other Kharif pulses	2	1	
14	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Rice	83	300	
15	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Cashewnut	719	192	
16	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Coconut	18190	64430000	
17	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Dry ginger	46	100	
18	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Sugarcane	1	1	
19	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Sweet potato	11	33	
20	Andaman and Nicobar Islands	NICOBARS	2002	Kharif	Rice	189.2	510.84	
21	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Arecanut	1258	2083	
22	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Banana	213	1278	
23	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Black pepper	63	13.5	
24	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Cashewnut	719	208	
25	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Coconut	18240	67490000	
26	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Dry chillies	413	28.8	
27	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Dry ginger	47.3	133	
28	Andaman and Nicobar Islands	NICOBARS	2002	Whole Year	Sugarcane	5	40	
29	Andaman and Nicobar Islands	NICOBARS	2003	Kharif	Rice	52	90.17	
30	Andaman and Nicobar Islands	NICOBARS	2003	Whole Year	Arecanut	1261	1525	

🌐 State\_Name

Name of the State

Uttar Pradesh	14%	Valid <div></div>	246k	100%
		Mismatched <div></div>	0	0%
Madhya Pradesh	9%	Missing <div></div>	0	0%
Other (189842)	77%	Unique	33	
		Most Common	Uttar Pradesh	14%

🌐 District\_Name

Name of the District

646  
unique values

Valid <div></div>	246k	100%
Mismatched <div></div>	0	0%
Missing <div></div>	0	0%
Unique	646	
Most Common	BIJAPUR	0%

⌵ Season

Current season

Kharif	39%	Valid <div></div>	246k	100%
		Mismatched <div></div>	0	0%
Rabi	27%	Missing <div></div>	0	0%
Other (83153)	34%	Unique	6	
		Most Common	Kharif	39%

⌵ Crop

Type of crop

Rice	6%	Valid <div></div>	246k	100%
		Mismatched <div></div>	0	0%
Maize	6%	Missing <div></div>	0	0%
Other (217040)	88%	Unique	124	
		Most Common	Rice	6%

# Area

Area of the agricultural field



Valid <div></div>	246k	100%
Mismatched <div></div>	0	0%
Missing <div></div>	0	0%
Mean	12k	
Std. Deviation	50.5k	
Quantiles	0.04	Min
	80	25%
	582	50%
	4.39k	75%
	8.58m	Max

# Production

Total crop production



Valid <div></div>	242k	98%
Mismatched <div></div>	0	0%
Missing <div></div>	3730	2%
Mean	583k	
Std. Deviation	17.1m	
Quantiles	0	Min
	88	25%
	729	50%
	7.02k	75%
	1.25b	Max