

Project Development Phase

SPRINT-1

Team ID	PNT2022TMID53155
Project Name	Project – Estimate the Crop Yield using Data Analytics

WORKING WITH THE DATASET – UNDERSTANDING THE DATASET

- This project is based on understanding the crop production of India
- We have downloaded 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](#)

Dataset Exploration

1.State Name

- It consists of 29 States and 4 Union territories.

2.District Name

- All the districts present in each state are considered.
- 646 unique districts among all the states

3.Crop Year

- Data is collected from the year 1997 to 2015

4.Season

- Data is collected over 6 different seasons classified as Autumn, Kharif, Rabi, Summer, Winter, Whole Year

5.Crop

- Contains the name of the crop

6. Area

- Numerical feature
- Area of the land in which the crop is cultivated.

7.Production

- Numerical Feature
- Crop Production value.

Dataset Format

- The dataset is available in .csv format

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	State_Nan	District_Ni	Crop_Year	Season	Crop	Area	Production												
2	Andaman	NICOBARS	2000	Kharif	Areca nut	1254	2000												
3	Andaman	NICOBARS	2000	Kharif	Other Kha	2	1												
4	Andaman	NICOBARS	2000	Kharif	Rice	102	321												
5	Andaman	NICOBARS	2000	Whole Ye	Banana	176	641												
6	Andaman	NICOBARS	2000	Whole Ye	Cashewnu	720	165												
7	Andaman	NICOBARS	2000	Whole Ye	Coconut	18168	65100000												
8	Andaman	NICOBARS	2000	Whole Ye	Dry ginger	36	100												
9	Andaman	NICOBARS	2000	Whole Ye	Sugarcane	1	2												
10	Andaman	NICOBARS	2000	Whole Ye	Sweet pot	5	15												
11	Andaman	NICOBARS	2000	Whole Ye	Tapioca	40	169												
12	Andaman	NICOBARS	2001	Kharif	Areca nut	1254	2061												
13	Andaman	NICOBARS	2001	Kharif	Other Kha	2	1												
14	Andaman	NICOBARS	2001	Kharif	Rice	83	300												
15	Andaman	NICOBARS	2001	Whole Ye	Cashewnu	719	192												
16	Andaman	NICOBARS	2001	Whole Ye	Coconut	18190	64430000												
17	Andaman	NICOBARS	2001	Whole Ye	Dry ginger	46	100												
18	Andaman	NICOBARS	2001	Whole Ye	Sugarcane	1	1												
19	Andaman	NICOBARS	2001	Whole Ye	Sweet pot	11	33												
20	Andaman	NICOBARS	2001	Whole Ye	Rice	100	500												

crop production