

# **Estimate the Crop Yield using Data Analytics**

## **WORKING WITH 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.

## **UNDERSTANDING THE DATASET**

- Download the dataset from the given dataset link.
- Data Given in csv file is understood.
- The data format is as shown in the below image.

crop\_production - Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	State	Na	District	N	Crop	Year	Season	Crop	Area	Production											
2	Andaman	NICOBAR		2000	Kharif			Areca nut	1254	2000											
3	Andaman	NICOBAR		2000	Kharif			Other Kha	2	1											
4	Andaman	NICOBAR		2000	Kharif			Rice	102	321											
5	Andaman	NICOBAR		2000	Whole Ye			Banana	176	641											
6	Andaman	NICOBAR		2000	Whole Ye			Cashewnu	720	165											
7	Andaman	NICOBAR		2000	Whole Ye			Coconut	18168	65100000											
8	Andaman	NICOBAR		2000	Whole Ye			Dry ginger	36	100											
9	Andaman	NICOBAR		2000	Whole Ye			Sugarcane	1	2											
10	Andaman	NICOBAR		2000	Whole Ye			Sweet pot	5	15											
11	Andaman	NICOBAR		2000	Whole Ye			Tapioca	40	169											
12	Andaman	NICOBAR		2001	Kharif			Areca nut	1254	2061											
13	Andaman	NICOBAR		2001	Kharif			Other Kha	2	1											
14	Andaman	NICOBAR		2001	Kharif			Rice	83	300											
15	Andaman	NICOBAR		2001	Whole Ye			Cashewnu	719	192											
16	Andaman	NICOBAR		2001	Whole Ye			Coconut	18190	64430000											
17	Andaman	NICOBAR		2001	Whole Ye			Dry ginger	46	100											
18	Andaman	NICOBAR		2001	Whole Ye			Sugarcane	1	1											
19	Andaman	NICOBAR		2001	Whole Ye			Sweet pot	11	33											
20	Andaman	NICOBAR		2002	Kharif			Rice	189.2	510.84											
21	Andaman	NICOBAR		2002	Whole Ye			Areca nut	1258	2083											
22	Andaman	NICOBAR		2002	Whole Ye			Banana	213	1278											
23	Andaman	NICOBAR		2002	Whole Ye			Black pepi	63	13.5											
24	Andaman	NICOBAR		2002	Whole Ye			Cashewnu	719	208											
25	Andaman	NICOBAR		2002	Whole Ye			Coconut	18240	67490000											

- Thus the understanding of dataset is done.