

Project Development phase

Sprint-1

Analysis and Estimation(Working and Loading the dataset)

Date	18.11.2022
Team ID	PNT2022TMID18750
Project Name	Estimate the Crop Yield using Data Analytics

Working with the Dataset:

Understanding the dataset:

18 November 2022 PNT2022TMID18750

Project Title - ESTIMATION OF CROP YIELD USING DATA ANALYTICS

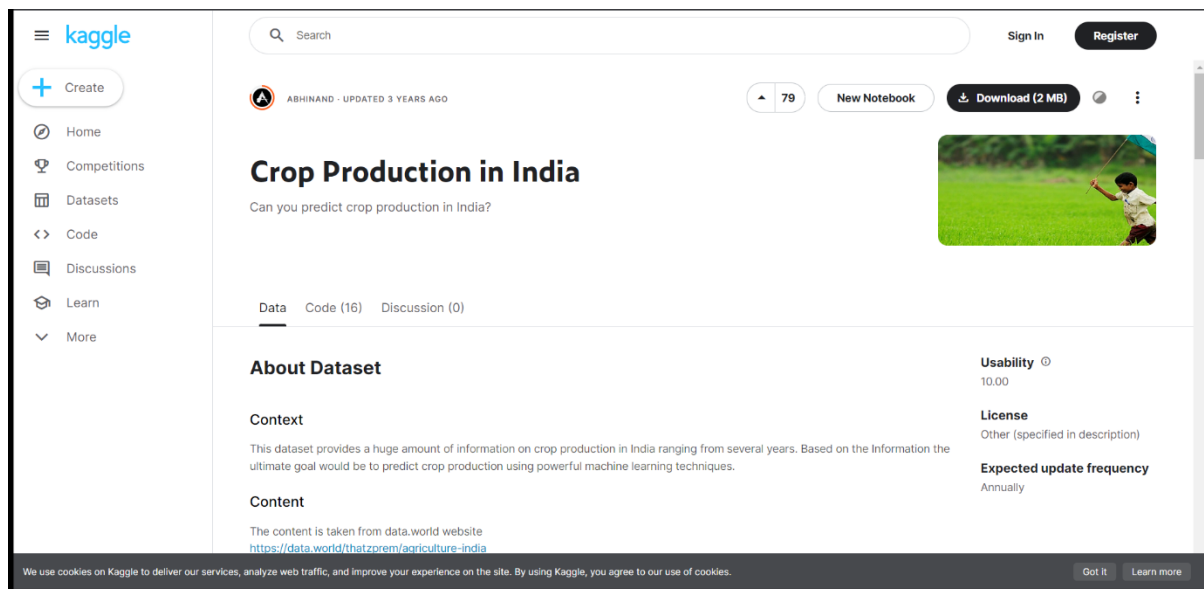
This project is based on understanding the crop production of India. Download the dataset from the below link. It has 2,46,092 data points and 6 features describing each crop production related details.

Firstly, download the dataset. Data Given in csv file is understood clearly. In case of understanding the data, we have been 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.

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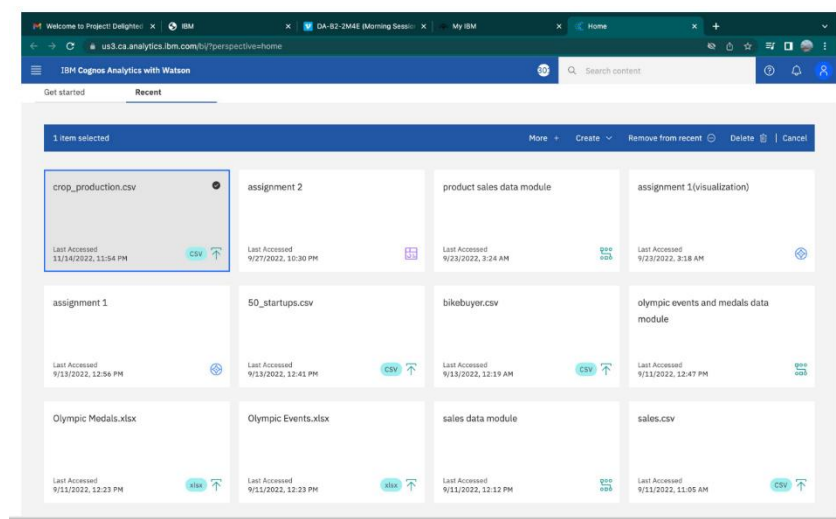
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Loading the Dataset:

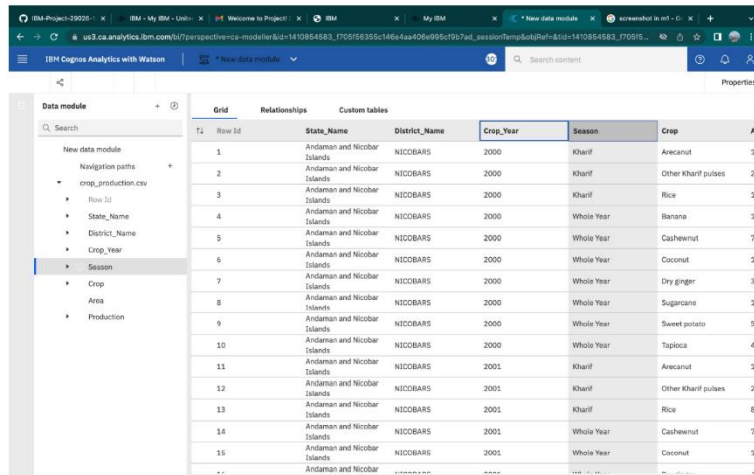
Before building a view and analyze firstly, we have made a connect of the data to IBM Cognos. Cognos supports connecting to a wide variety of data, stored in a variety of places.

The data might be stored on your computer in a spreadsheet or a text file, or in a big data, relational, or cube (multidimensional) database on a server in your enterprise. In our case, we will be using a spreadsheet or text file for making our analysis.



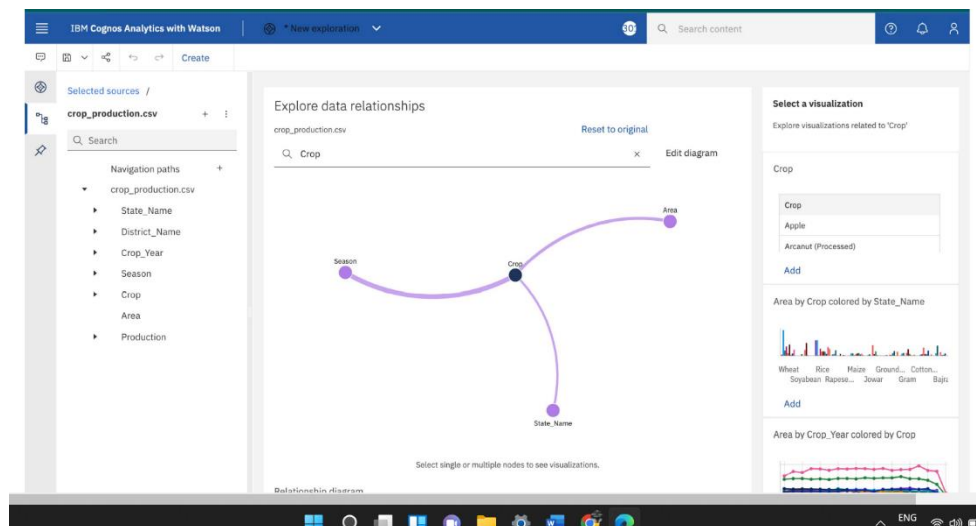
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The screenshot shows the IBM Cognos Analytics interface with a data module named 'crop_production.csv'. The 'Grid' tab is active, displaying a table with 15 rows and 8 columns. The columns are: Row Id, State_Name, District_Name, Crop_Year, Season, Crop, and Area. The data represents crop production for Andaman and Nicobar Islands from 2000 to 2001.

Row Id	State_Name	District_Name	Crop_Year	Season	Crop	Area
1	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Areca nut	121
2	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Other kharif pulses	2
3	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Rice	100
4	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Banana	179
5	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Cashew nut	72
6	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Coconut	18
7	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Dry ginger	36
8	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sugarcane	1
9	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sweet potato	5
10	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Topioca	40
11	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Areca nut	121
12	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Other kharif pulses	2
13	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Rice	83
14	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Cashew nut	71
15	Andaman and Nicobar Islands	NICOBARS	2001	Whole Year	Coconut	18



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