

**Project Development phase**  
**Sprint-1**  
**Analysis and Estimation (Working and Loading the dataset)**

|              |   |
|--------------|---|
| Date         | 17 November 2022  |
| Team ID      | PNT2022TMID21478  |
| Project Name | Project - ESTIMATION OF CROP YIELD USING DATA ANALYTICS |

## Working with the Dataset:

### 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](#)

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.

|    | state_name                  | district_name | crop_year | season     |
|----|-----------------------------|---------------|-----------|------------|
| 1  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Kharif     |
| 2  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Kharif     |
| 3  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Kharif     |
| 4  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year |
| 5  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year |
| 6  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year |
| 7  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year |
| 8  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year |
| 9  | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year |
| 10 | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year |
| 11 | Andaman and Nicobar Islands | NICOBARS      | 2001      | Kharif     |
| 12 | Andaman and Nicobar Islands | NICOBARS      | 2001      | Kharif     |

## Loading the Dataset:

Login in to the IBM Cognos Platform with IBM ID and Password.

us3.ca.analytics.ibm.com/bi/?perspective=home

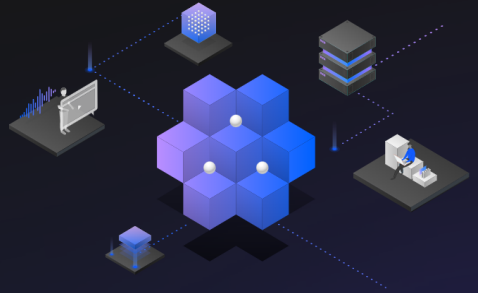
1 - draw.io Thiagarajar College... Swayam Word to PDF - Con... NPTEL Registration... https://labs.cognitiv... IBM Watson Studio Gmail YouTube Voucher Maps Other bookmarks

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# Hello. Welcome to Cognos Analytics with Watson.

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Quick launch

Upload data

Upload or drag and drop spreadsheets, csv files, and other data sources.

Prepare data

Use data modules to clean and connect data from multiple resources.

Exploration

Quickly find unbiased answers by identifying trends in your data with data exploration.

Present data

Create sophisticated, multi-page, multi-query dashboards, reports, or stories.

Click on upload data and Upload the data

Initialising the upload:

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50\_Startups.csv pharma sales dashboard Pharma\_Monthly\_Sales.csv

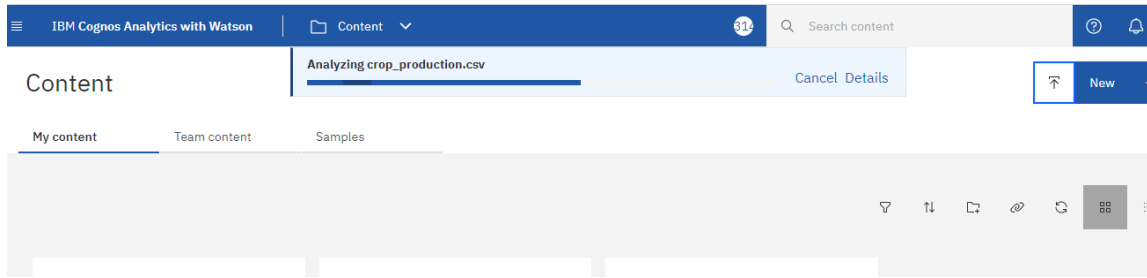
Reading the crop production dataset:

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Reading crop\_production.csv... Cancel Details

Content

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And, Finally the dataset has been uploaded successfully.

us3.ca.analytics.ibm.com/bi/?perspective=ca-modeller&id=2818311301\_d932242cd44341dc9aac456753ffd0ab\_sessionTemp&objRef=&tid=2818311301\_d932242cd44341dc9aac456753f...

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\* New data module

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Properties

Data module

Search

New data module

Navigation paths

crop\_production.csv

- # Row Id
- State\_Name
- District\_Name
- Crop\_Year
- Season
- Crop
- Area
- Production

| Row Id | State_Name                  | District_Name | Crop_Year | Season     | Crop                | Area  |
|--------|-----------------------------|---------------|-----------|------------|---------------------|-------|
| 1      | Andaman and Nicobar Islands | NICOBARS      | 2000      | Kharif     | Arecanut            | 1254  |
| 2      | Andaman and Nicobar Islands | NICOBARS      | 2000      | Kharif     | Other Kharif pulses | 2     |
| 3      | Andaman and Nicobar Islands | NICOBARS      | 2000      | Kharif     | Rice                | 102   |
| 4      | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year | Banana              | 176   |
| 5      | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year | Cashewnut           | 720   |
| 6      | Andaman and Nicobar Islands | NICOBARS      | 2000      | Whole Year | Coconut             | 18168 |
| 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 | Tapioca             | 40    |
| 11     | Andaman and Nicobar Islands | NICOBARS      | 2001      | Kharif     | Arecanut            | 1254  |
| 12     | Andaman and Nicobar Islands | NICOBARS      | 2001      | Kharif     | Other Kharif pulses | 2     |