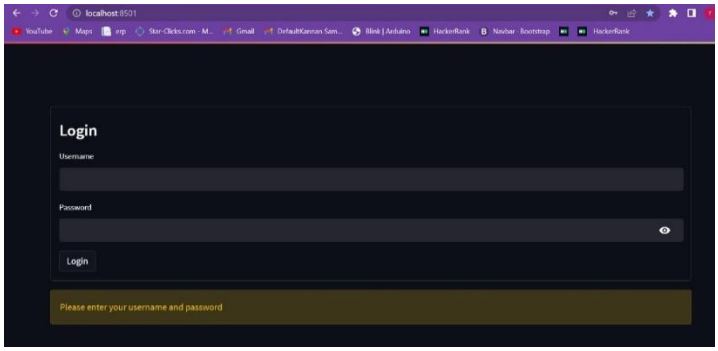
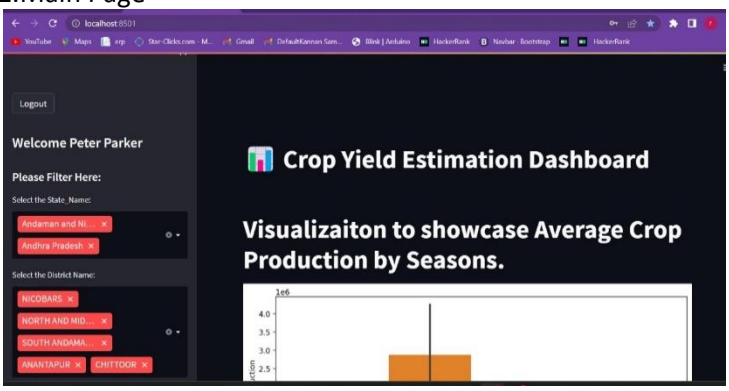
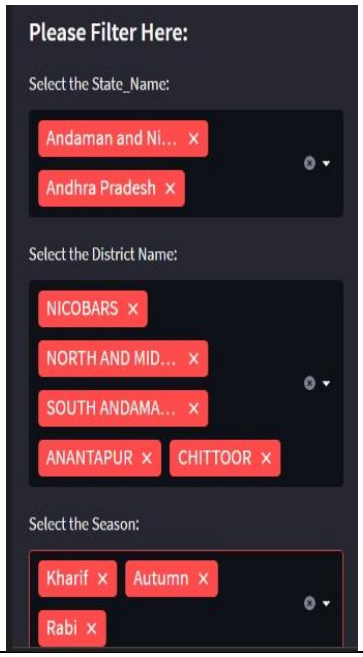
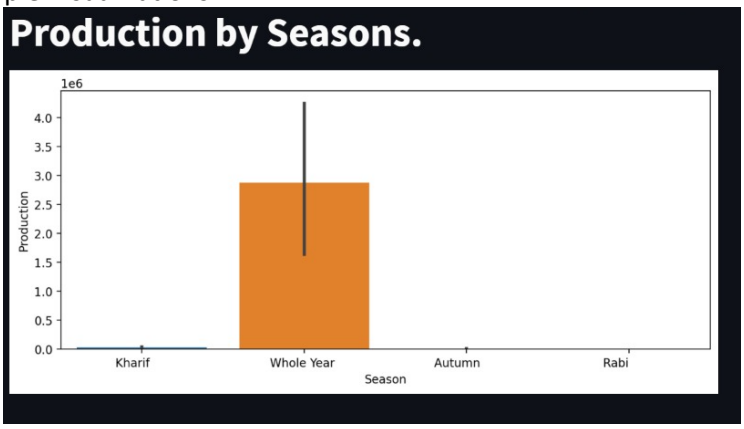
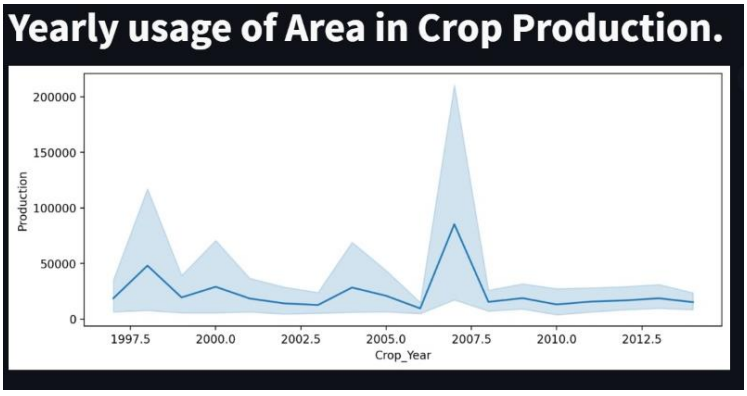
Project Development Phase
Model Performance Test

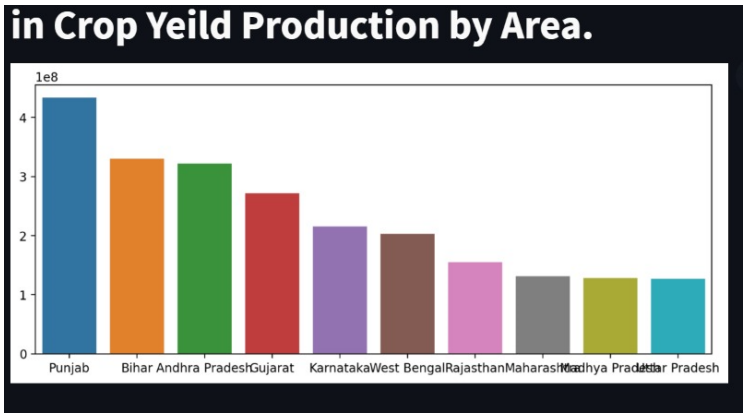
Date	10 November 2022
Team ID	PNT2022TMID17856
Project Name	Project - Estimation The Crop Yield Using Data Analytics
Maximum Marks	10 Marks

Model Performance Testing:

The project team shall fill in the following information in the model performance testing template.

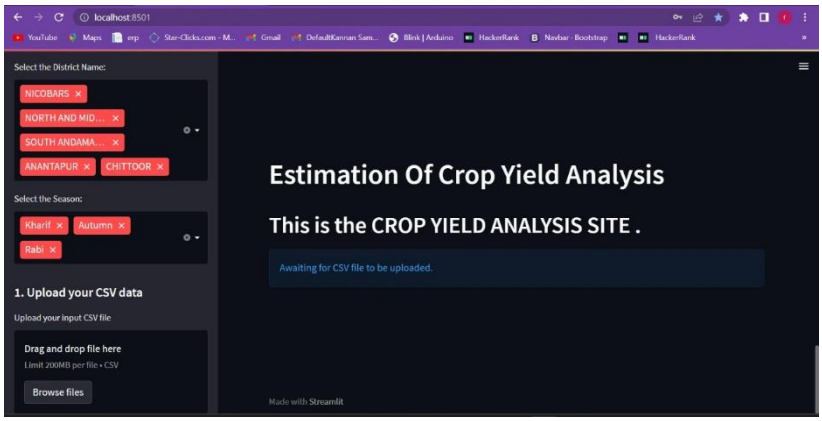
S.No.	Parameter	Screenshot / Values
1.	Dashboard design	1. Login Page  2.Main Page 

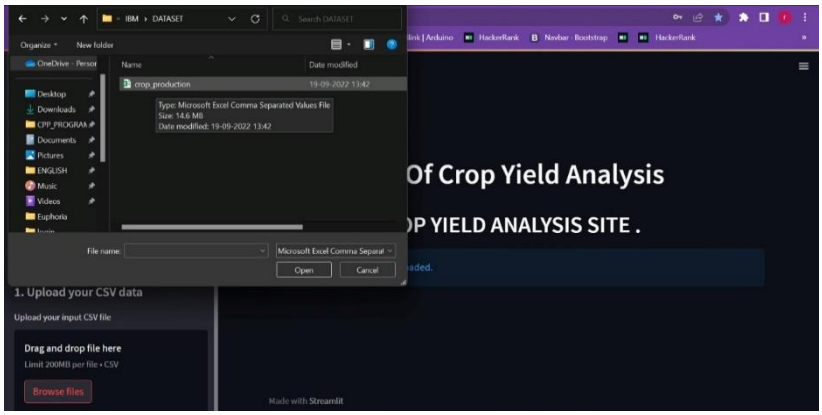
		3.Side panel 
2.	Data Responsiveness	1.Sample Visualizations  



The user can see the sample visualization.

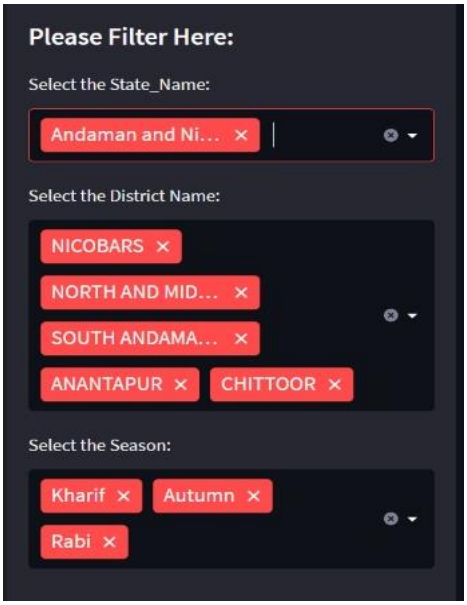
2.Data Upload





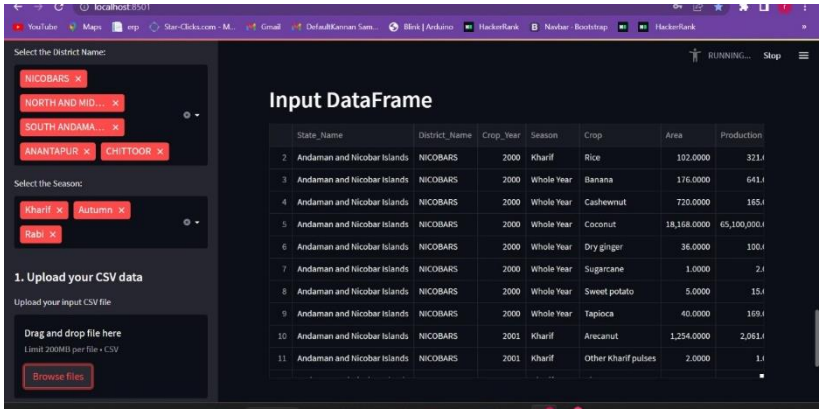
The User can upload their dataset to perform visualization.

3.Filters

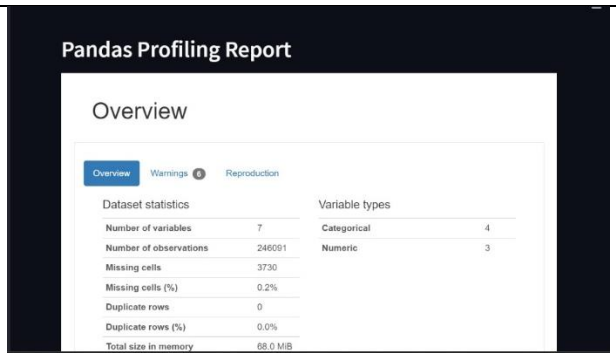


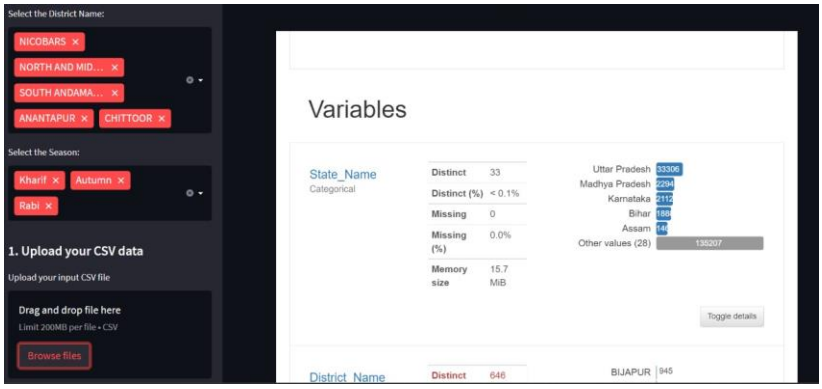
The user can select the filters to perform the respective visualization.

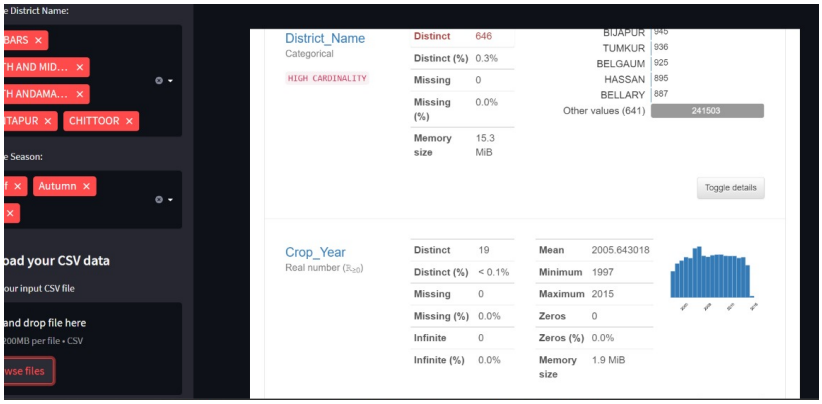
Once the dataset is uploaded we can see the description of the dataset.

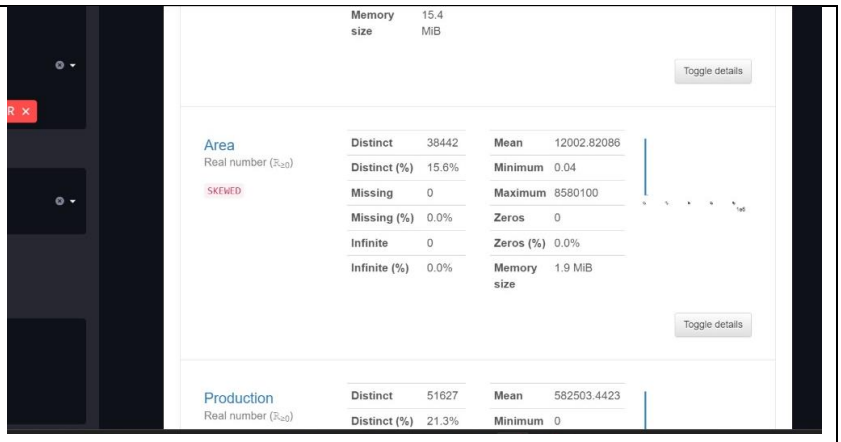
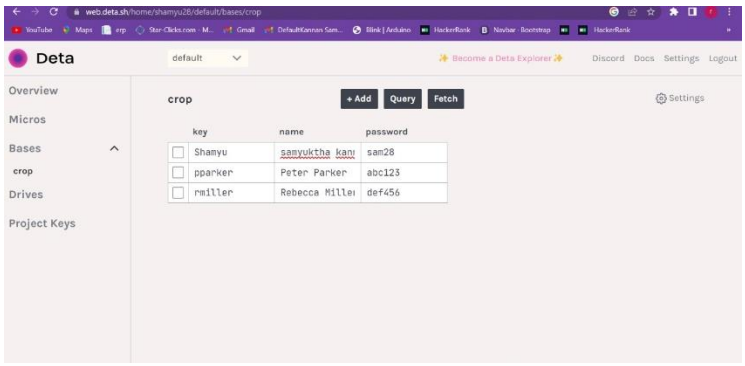


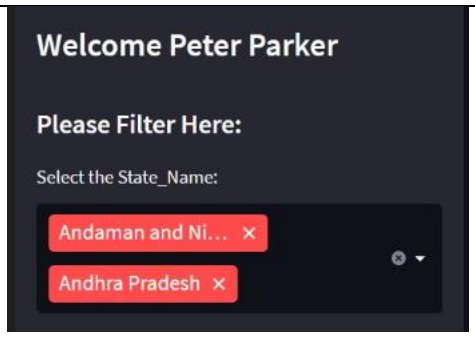
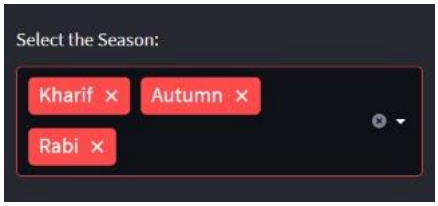
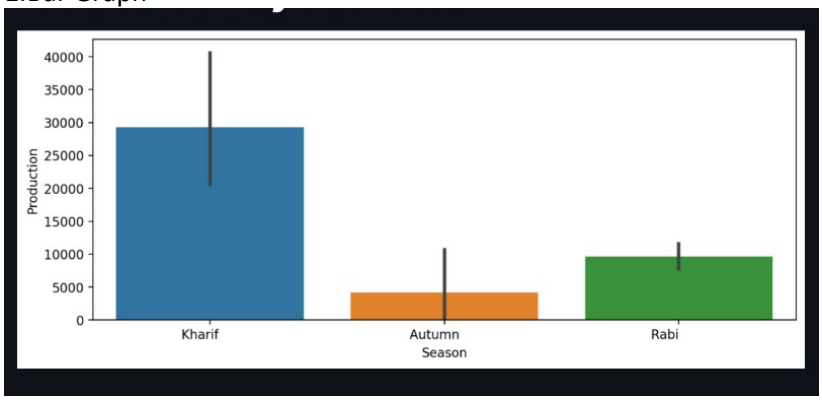
	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production
2	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Rice	102.0000	321.(
3	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Banana	176.0000	641.(
4	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Cashewnut	720.0000	165.(
5	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Coconut	18,168.0000	65,100,000.(
6	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Dry ginger	36.0000	100.(
7	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sugarcane	1.0000	2.(
8	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sweet potato	5.0000	15.(
9	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Tapioca	40.0000	169.(
10	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Arecanut	1,254.0000	2,061.(
11	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Other Kharif pulses	2.0000	1.(


Pandas Profiling Report
Overview
Overview
Warnings 6
Reproduction
Dataset statistics
Number of variables 7
Number of observations 246091
Missing cells 3730
Missing cells (%) 0.2%
Duplicate rows 0
Duplicate rows (%) 0.0%
Total size in memory 68.0 MiB
Variable types
Categorical 4
Numeric 3


Select the District Name:
NICOBARS
NORTH AND MID...
SOUTH ANDAMA...
ANANTAPUR
CHITTOOR
Select the Season:
Kharif
Autumn
Rabi
1. Upload your CSV data
Upload your input CSV file
Drag and drop file here
Limit 200MB per file • CSV
Browse files
Variables
State_Name
Categorical
Distinct 33
Distinct (%) < 0.1%
Missing 0
Missing (%) 0.0%
Memory size 15.7 MiB
Uttar Pradesh 33306
Madhya Pradesh 2294
Karnataka 2112
Bihar 168
Assam 148
Other values (28) 138207
Toggle details
District_Name
Distinct 646
BIJAPUR 945

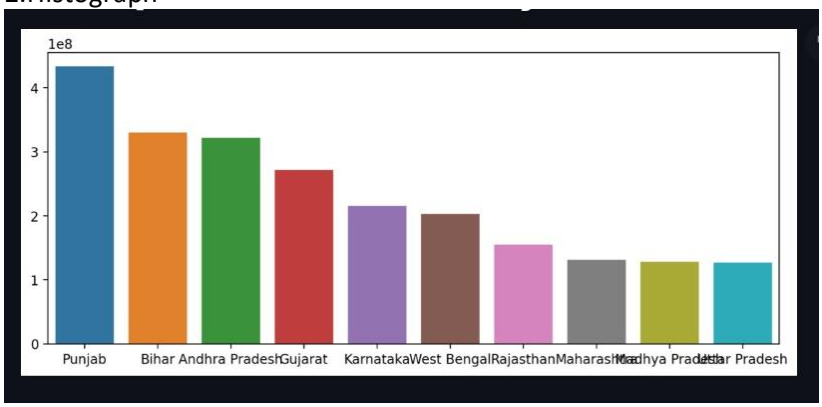

District_Name
Categorical
HIGH CARDINALITY
Distinct 646
Distinct (%) 0.3%
Missing 0
Missing (%) 0.0%
Memory size 15.3 MiB
BIJAPUR 945
TUMKUR 936
BELGAUM 925
HASSAN 895
BELLARY 887
Other values (641) 241503
Toggle details
Crop_Year
Real number (ℝ≥0)
Distinct 19
Distinct (%) < 0.1%
Missing 0
Missing (%) 0.0%
Infinite 0
Infinite (%) 0.0%
Mean 2005.643018
Minimum 1997
Maximum 2015
Zeros 0
Zeros (%) 0.0%
Memory size 1.9 MiB

		
3.	Amount Data to Rendered (DB2 Metrics)	The User's login details are maintained in the Database Which is accessed only by the admin  The visualization is based on the data uploaded and the filters selected.
4.	Utilization of Data Filters	The Filters are based on 1.State Name

		 2.District Name 3.Season 
5.	Effective User Story	No of Scene Added - 5
6.	Descriptive Reports	No of Visulizations - 5 1.Bar Graph  **Crop production based on the season** The following graph shows when the most crops are produced based on the seasons from the graph we can deduce that most crops are produced in the Kharif season followed by rabi and

autumn. The attributes considered are Production and season from the dataset.

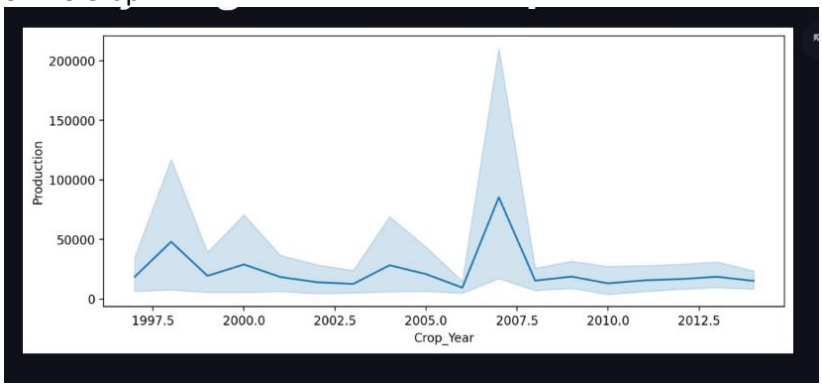
2.Histograph



Crop production based on the district

This graph depicts crop production based on the location and the production from the dataset and infers that Punjab produces the maximum yield

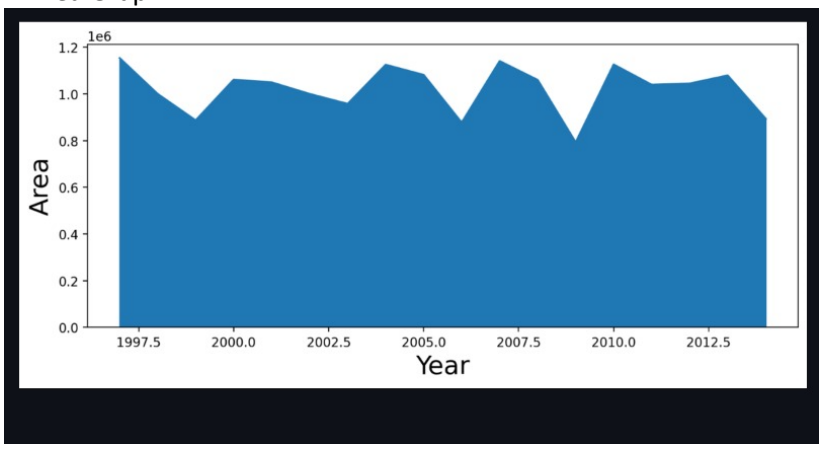
3.Line Graph



Yearly Usage of area in crop production

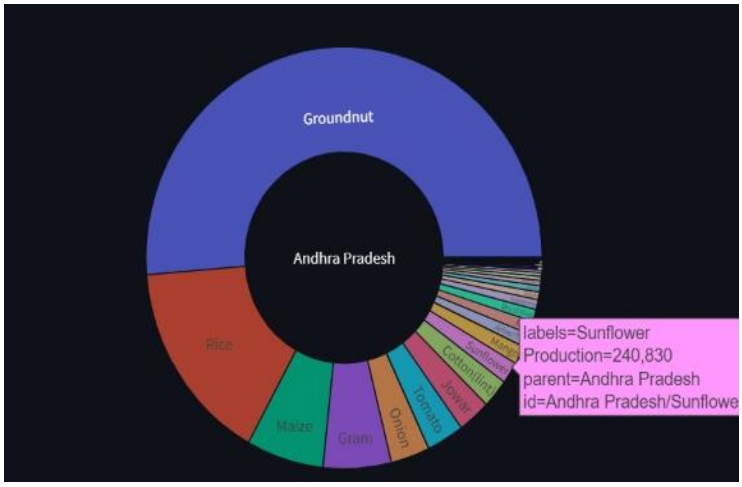
From the graph, we can conclude that the maximum area consumed for agriculture is in 2007

4.Area Graph



Area consumption by Year

5.Pie Chart



Crop Production Based on the location