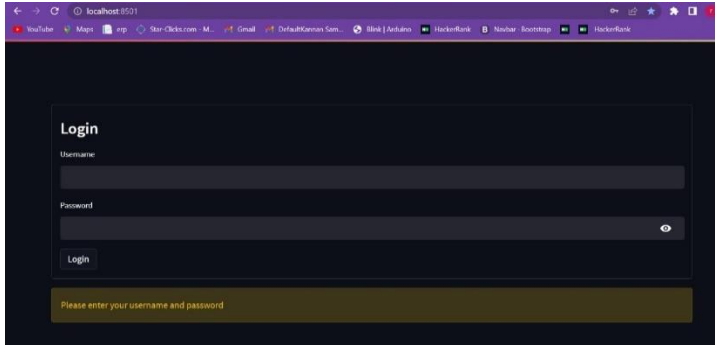
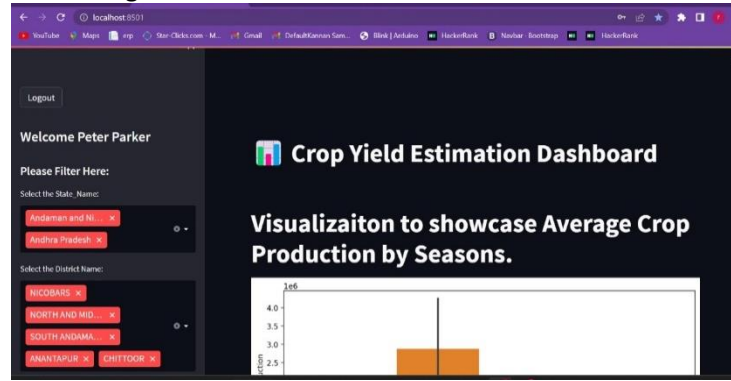


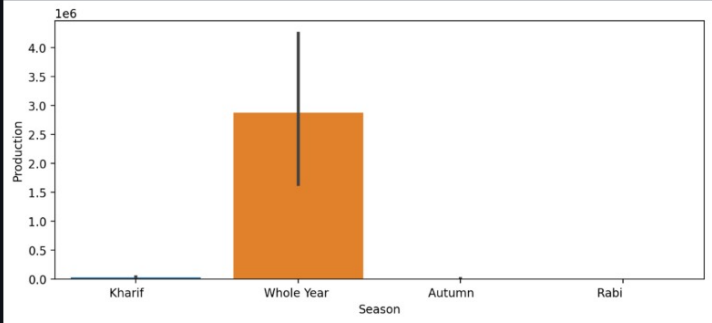
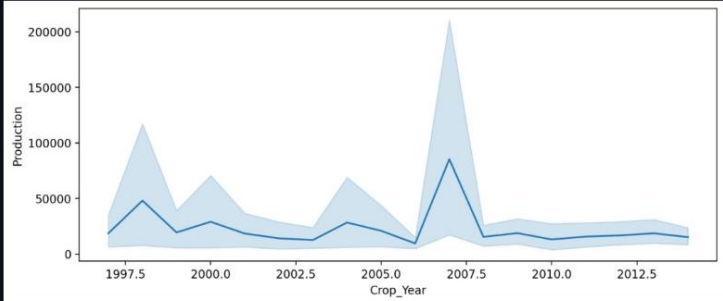
Project Development Phase Model Performance Test

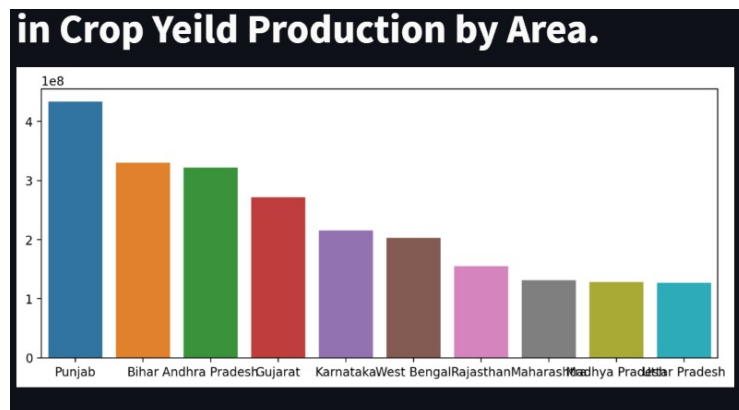
Date	10 November 2022
Team ID	PNT2022TMID17856
Project Name	Project - Estimation The Crop Yield Using Data Analytics
Maximum Marks	10 Marks

Model Performance Testing:

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

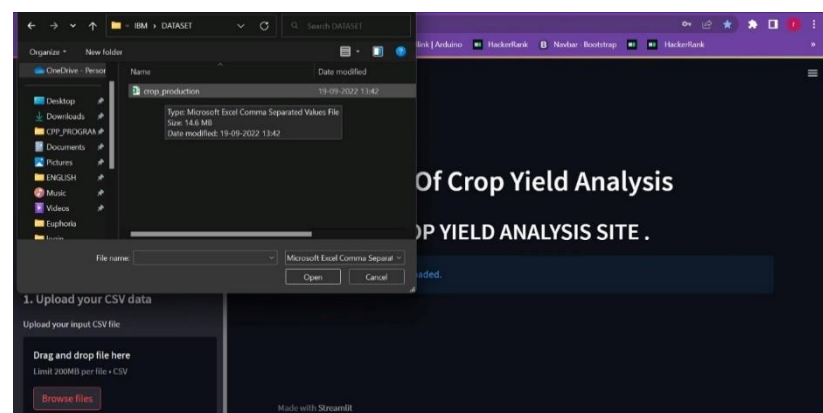
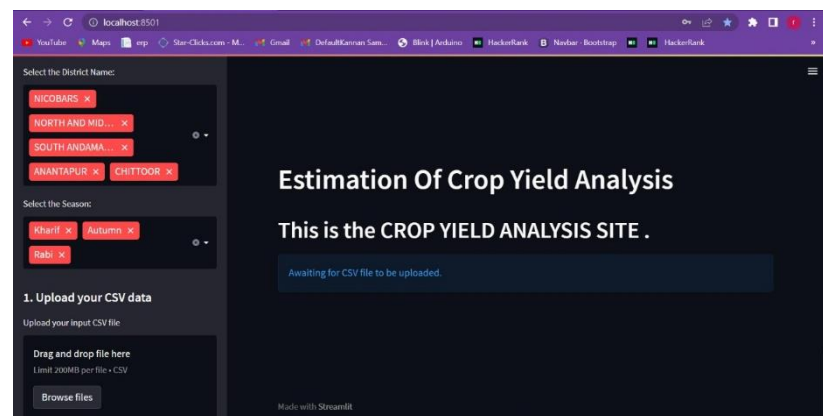
S.No.	Parameter	Screenshot / Values
1.	Dashboard design	<p>1. Login Page</p>  <p>2. Main Page</p> 

		<div>3.Side panel</div> <div><div>Please Filter Here:</div><div>Select the State_Name:</div><div><div>Andaman and Ni... x</div><div>Andhra Pradesh x</div></div><div>Select the District Name:</div><div><div>NICOBARS x</div><div>NORTH AND MID... x</div><div>SOUTH ANDAMA... x</div><div>ANANTAPUR x</div><div>CHITTOOR x</div></div><div>Select the Season:</div><div><div>Kharif x</div><div>Autumn x</div><div>Rabi x</div></div></div>
2.	Data Responsiveness	<div>1.Sample Visualizations</div> <div><div>Production by Seasons.</div><div></div></div> <div><div>Yearly usage of Area in Crop Production.</div><div></div></div>



The user can see the sample visualization.

2.Data Upload



The User can upload their dataset to perform visualization.

3.Filters

Please Filter Here:

Select the State_Name:

Andaman and Ni... x

Select the District Name:

NICOBARS x

NORTH AND MID... x

SOUTH ANDAMA... x

ANANTAPUR x CHITTOOR x

Select the Season:

Kharif x Autumn x

Rabi x

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

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

1. Upload your CSV data

Upload your input CSV file

Drag and drop file here

Limit 200MB per file • CSV

Browse Files

Input DataFrame

	State_Name	District_Name	Crop_Year	Season	Crop	Area	Production
2	Andaman and Nicobar Islands	NICOBARS	2000	Kharif	Rice	102.0000	321.1
3	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Banana	176.0000	641.1
4	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Cashewnut	720.0000	165.1
5	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Coconut	18,168.0000	45,100,000.1
6	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Dry ginger	36.0000	100.1
7	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sugarcane	1.0000	2.1
8	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Sweet potato	5.0000	15.1
9	Andaman and Nicobar Islands	NICOBARS	2000	Whole Year	Tapioca	40.0000	169.1
10	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Areca nut	1,254.0000	2,083.1
11	Andaman and Nicobar Islands	NICOBARS	2001	Kharif	Other kharif pulses	2.0000	1.1

Pandas Profiling Report

Overview

Overview

Warnings 1

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	68.6 MiB

Variable types

Categorical	4
Numeric	3

Overview Warnings 6 Reproduction

Dataset statistics	Variable types
Number of variables	7
Number of observations	246001
Missing cells	3730
Missing cells (%)	0.2%
Duplicate rows	0
Duplicate rows (%)	0.0%
Total size in memory	68.0 MiB

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 MB

Uttar Pradesh

33306

Madhya Pradesh

2298

Karnataka

2112

Bihar

186

Assam

94

Other values (28)

125207

Toggle details

District Name

Distinct

646

BIJAPUR

945

The screenshot shows the DataCamp interface with two main sections. The top section, titled "District Name:", lists districts: BARS, H AND MID..., H ANDAMA..., TAPUR, and CHITTOOR. The bottom section, titled "Season:", lists seasons: f and Autumn. A "Load your CSV data" button is visible. Below it, a "Drop your input CSV file" section shows a "Drop file here" area with a "0.00MB per file • CSV" label and a "Browse files" button. To the right, a "District_Analysis" section displays a table of district statistics. The table has columns for "District Name", "Distinct", "Missing", "Memory size", and "Other values (B41)". The rows show data for BIJAPUR, TUMKUR, BELGAUM, HASSAN, and BELLARY. A "Toggle details" button is located below the table.

District Name	Distinct	Missing	Memory size	Other values (B41)
BIJAPUR	985			
TUMKUR	936			
BELGAUM	925			
HASSAN	895			
BELLARY	887			
Other values (B41)	241503			

		<div><div><div><div>Memory size15.4 MiBToggle details</div><div><div>Area</div><div>Real number (F64)</div><div>SKewed</div><table><tr><td>Distinct</td><td>38442</td><td>Mean</td><td>12002.82086</td></tr><tr><td>Distinct (%)</td><td>15.6%</td><td>Minimum</td><td>0.04</td></tr><tr><td>Missing</td><td>0</td><td>Maximum</td><td>8580100</td></tr><tr><td>Missing (%)</td><td>0.0%</td><td>Zeros</td><td>0</td></tr><tr><td>Infinite</td><td>0</td><td>Zeros (%)</td><td>0.0%</td></tr><tr><td>Infinite (%)</td><td>0.0%</td><td>Memory size</td><td>1.9 MiB</td></tr></table><div>Toggle details</div></div><div><div>Production</div><div>Real number (F64)</div><table><tr><td>Distinct</td><td>51627</td><td>Mean</td><td>582503.4423</td></tr><tr><td>Distinct (%)</td><td>21.3%</td><td>Minimum</td><td>0</td></tr></table></div></div></div><div><div><div>your CSV data</div><div>input CSV file</div><div>drop file here</div><div>3 per file • CSV</div><div>files</div></div><div><div>Missing values</div><div><div>Count</div><div>Matrix</div><div>Dendrogram</div></div><div></div></div></div></div>	Distinct	38442	Mean	12002.82086	Distinct (%)	15.6%	Minimum	0.04	Missing	0	Maximum	8580100	Missing (%)	0.0%	Zeros	0	Infinite	0	Zeros (%)	0.0%	Infinite (%)	0.0%	Memory size	1.9 MiB	Distinct	51627	Mean	582503.4423	Distinct (%)	21.3%	Minimum	0
Distinct	38442	Mean	12002.82086																															
Distinct (%)	15.6%	Minimum	0.04																															
Missing	0	Maximum	8580100																															
Missing (%)	0.0%	Zeros	0																															
Infinite	0	Zeros (%)	0.0%																															
Infinite (%)	0.0%	Memory size	1.9 MiB																															
Distinct	51627	Mean	582503.4423																															
Distinct (%)	21.3%	Minimum	0																															
3.	Amount Data to Rendered (DB2 Metrics)	<div><div>The User’s login details are maintained in the Database Which is accessed only by the admin</div><div><div><div>web.deta.sh/home/shamyu2/default/bases/crop</div><div><div>Deta</div><div>default</div><div>Become a Deta Explorer</div><div>Discord</div><div>Docs</div><div>Settings</div><div>Logout</div></div><div><div>Overview</div><div>Micros</div><div>Bases</div><div>crop</div><div>Drives</div><div>Project Keys</div></div><div><div>crop</div><div>+ Add</div><div>Query</div><div>Fetch</div><div>Settings</div></div><div><table><tr><th>key</th><th>name</th><th>password</th></tr><tr><td><input type="checkbox"/> Shamyu</td><td>shamyuktha kant</td><td>san28</td></tr><tr><td><input type="checkbox"/> pparker</td><td>Peter Parker</td><td>abc123</td></tr><tr><td><input type="checkbox"/> miller</td><td>Rebecca Miller</td><td>def456</td></tr></table></div></div></div><div><div>The visualization is based on the data uploaded and the filters selected.</div></div></div>	key	name	password	<input type="checkbox"/> Shamyu	shamyuktha kant	san28	<input type="checkbox"/> pparker	Peter Parker	abc123	<input type="checkbox"/> miller	Rebecca Miller	def456																				
key	name	password																																
<input type="checkbox"/> Shamyu	shamyuktha kant	san28																																
<input type="checkbox"/> pparker	Peter Parker	abc123																																
<input type="checkbox"/> miller	Rebecca Miller	def456																																
4.	Utilization of Data Filters	<div><div>The Filters are based on</div><div>1.State Name</div></div>																																

Welcome Peter Parker

Please Filter Here:

Select the State_Name:

Andaman and Ni... x

Andhra Pradesh x

2.District Name

Select the District Name:

NICOBARS

NORTH AND MID...

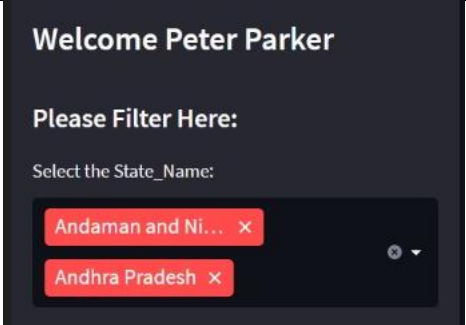

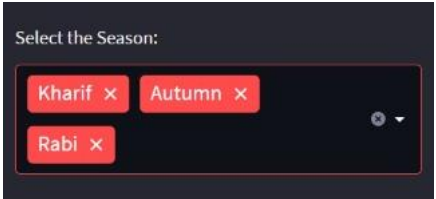
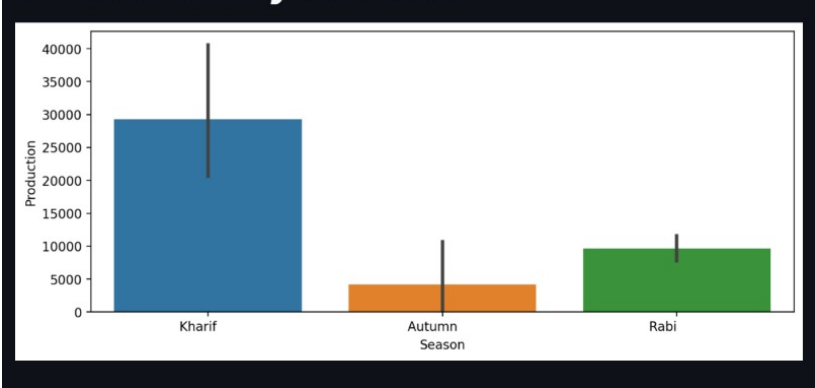
SOUTH ANDAMA...

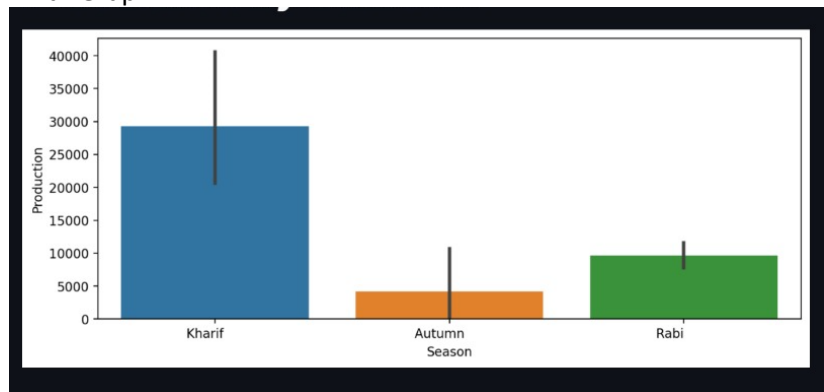
ANANTAPUR

CHITTOOR

3.Season

Select the Season:

		 <p>2.District Name</p>  <p>3.Season</p> 	
5.	Effective User Story	No of Scene Added - 5	
6.	Descriptive Reports	<p>No of Visualizations - 5</p> <p>1.Bar Graph</p>  <p>Crop production based on the season</p> <p>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</p>	

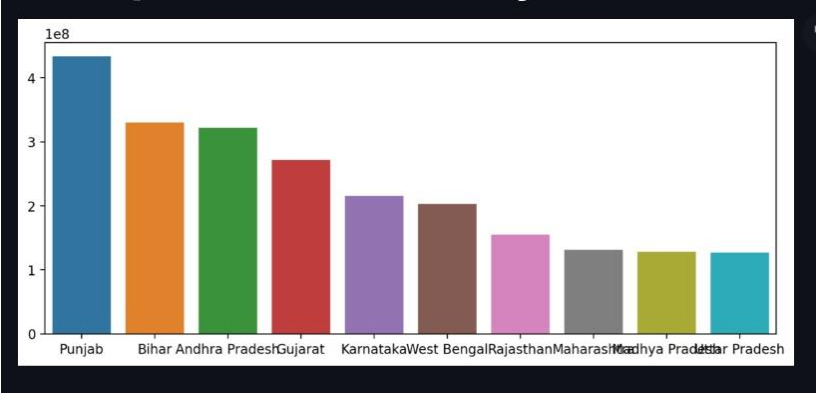


Crop production based on the season

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.

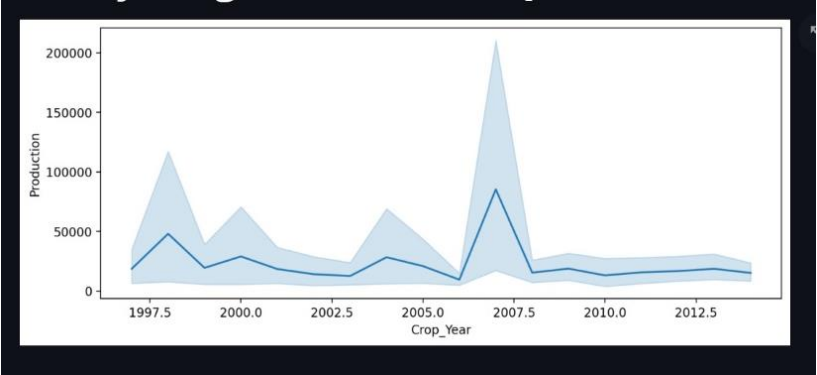
2.Histogram



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

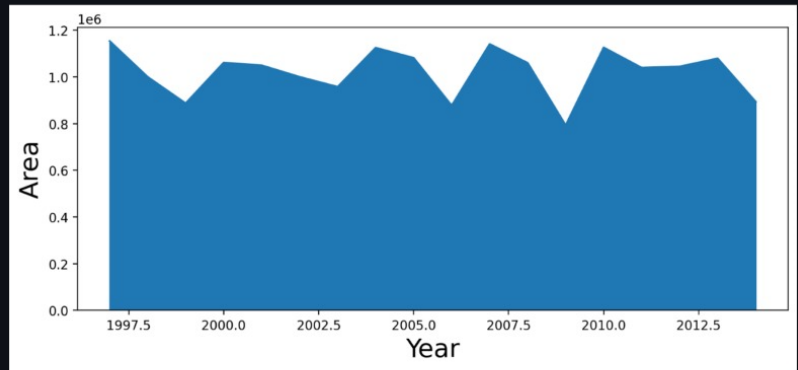
3.Line Graph



Yearly Usage of area in crop production

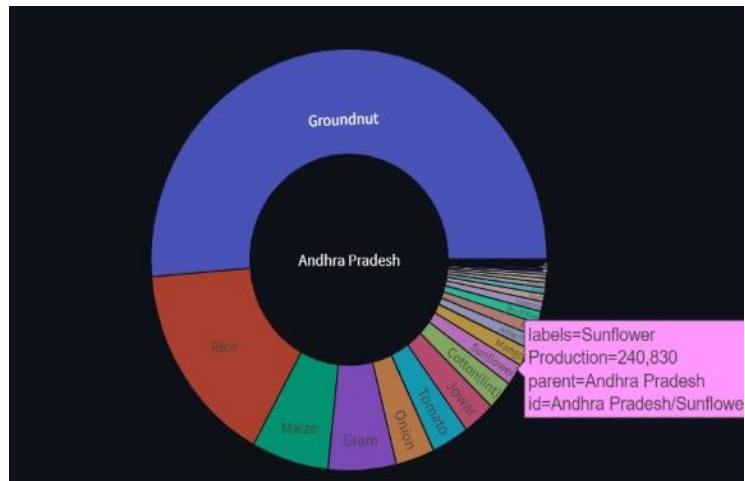
From the graph, we can conclude that the maximum area consumed for agriculture is in 2007

4.Area Graph



Area consumption by Year

5.Pie Chart



Crop Production Based on the location