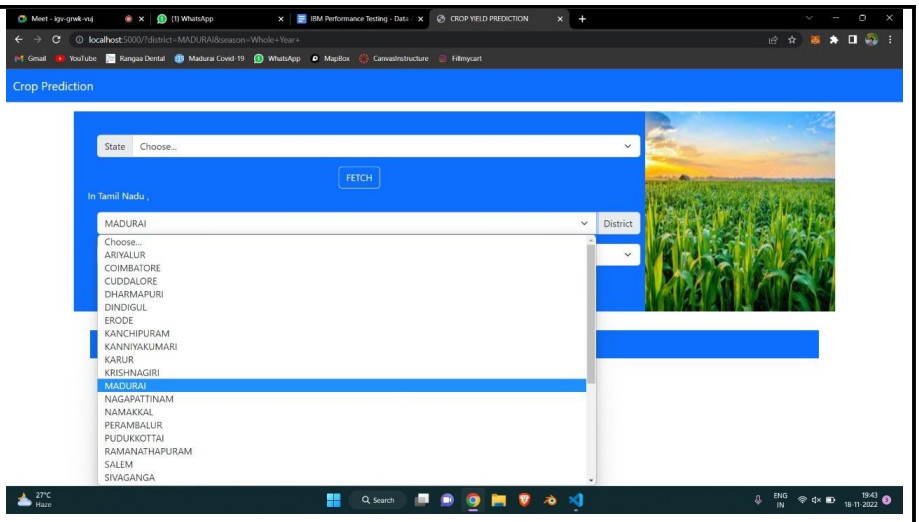
Project Development
PhaseModel Performance
Test

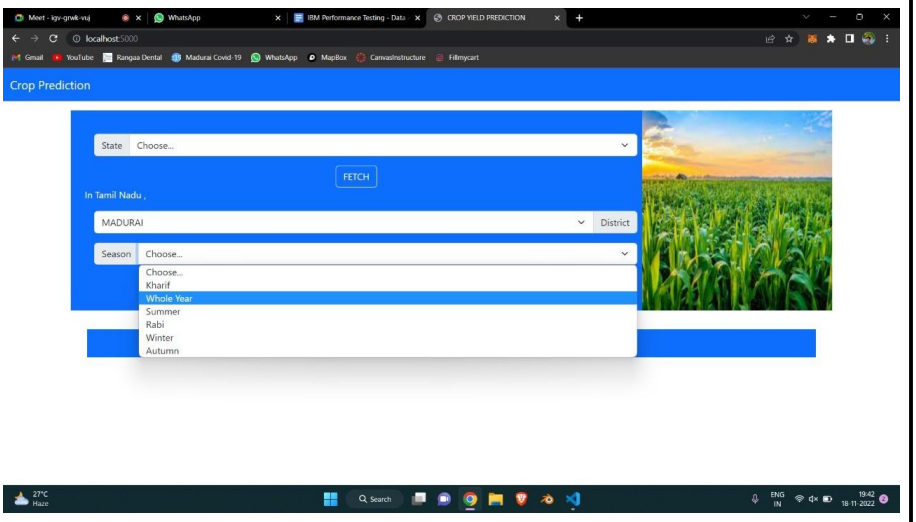
Date	10 November 2022
Team ID	PNT2022TMID45976
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	10 Marks

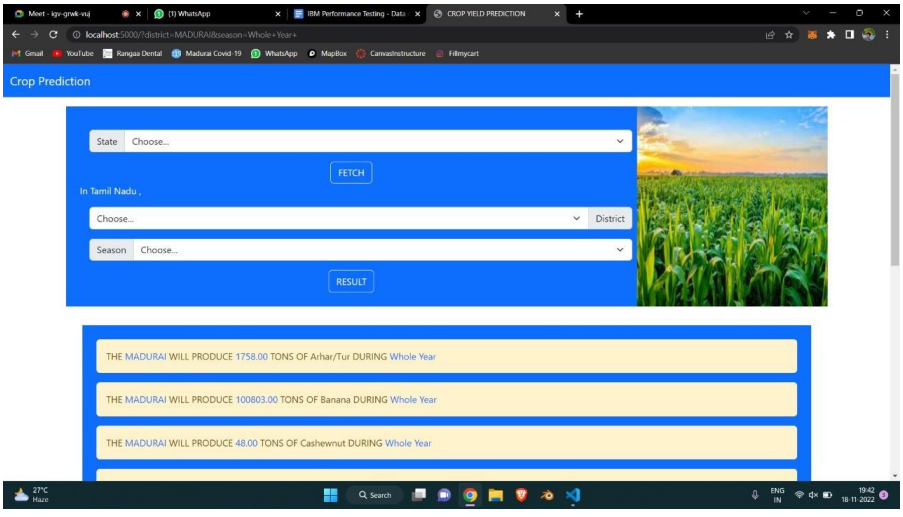
Model Performance Testing:

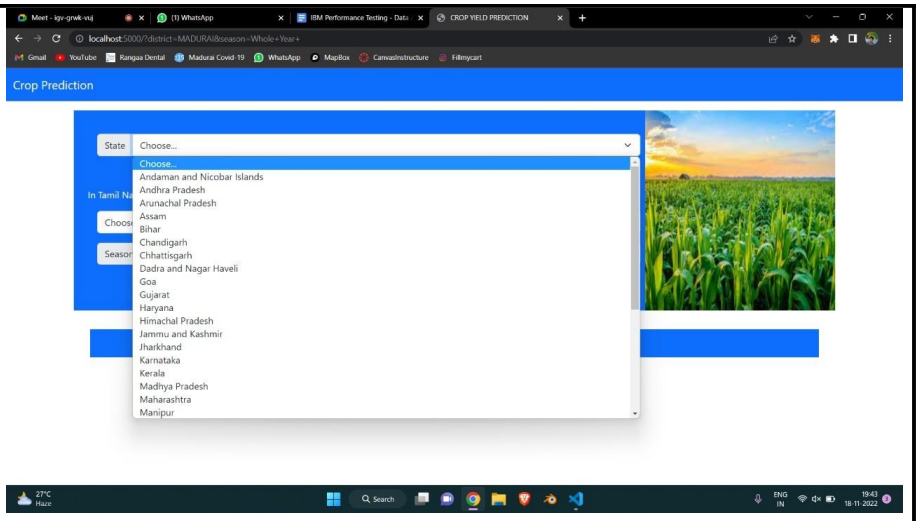
Project team shall fill the following information in the model performance testing template.

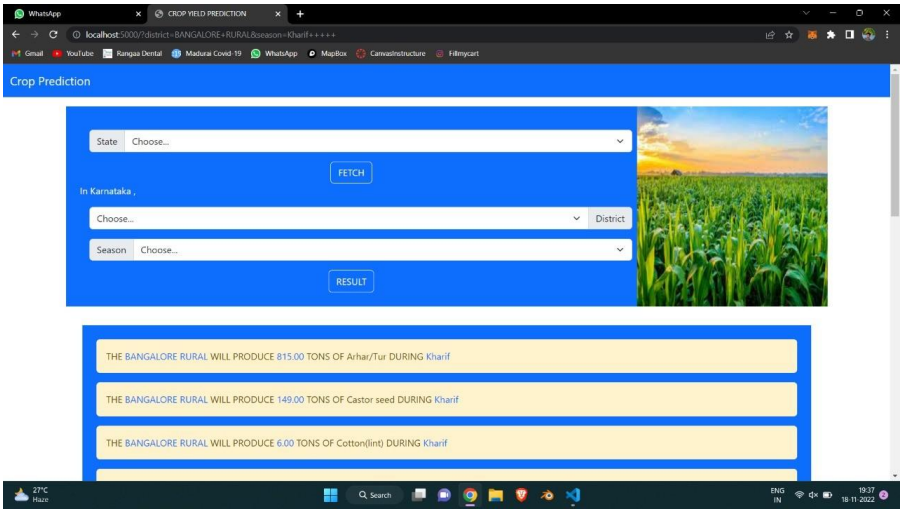
S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs – 13
2.	Data Responsiveness	Yes, the website is responsive completely,that is by resizing the browser window size as per the test scenario. **CROP PRODUCTION DATASET** The dataset contains 7 rows and 246091 record and dataset contains different state name, different district name, crop year ,crop, area, seasonand production
3.	Amount Data to Rendered (DB2 Metrics)	**To connect IBM Db2 database cloud with cognos analytics:** By using IBM Db2 to create Dashboard,Report,Story,VisualizationandExploratory data analytics(EDA)
4.	Utilization of DataFilters	Utilization of data filters - 12
5.	Effective User Story	● No of Scene Added – 8 ● To create the Registration page of the Website To create the Login page of the Website ● To create the Dashboard page of the Website ● To work on the given dataset,Understand the Dataset ● Average Crop Production by Seasons ● Showcase the Yearly usage of Area in Crop Production ● Load the dataset to Cloud platform then Build the required Visualizations Using the Crop production in Indian dataset,create various graphs and charts to highlight the insights and visualizations. ● Build a Visualizations to showcase
6.	Descriptive Reports	● No of Visualizations / Graphs – 5 ● Visualization1 - Average Crop Production by Seasons Visualization2 - Yearly usage of area in crop production Visualization3 - Top 10 States in Crop Yield Production by AreaVisualization 4 - Crop Production by State ● Visualization5 - Represent the States with Seasonal Crop Production using a Text representation


Crop Prediction
State
Choose...
FETCH
In Tamil Nadu ,
MADURAI
District
Choose...
ARIYALUR
COIMBATORE
CUDDALORE
DHARMAPURI
DINDIGUL
ERODE
KANCHIPURAM
KANNIYAKUMARI
KARUR
KRISHNAGIRI
MADURAI
NAGAPATTINAM
NAMAKKAL
PERAMBALUR
PUDUKKOTTAI
RAMANATHAPURAM
SALEM
SIVAGANGA

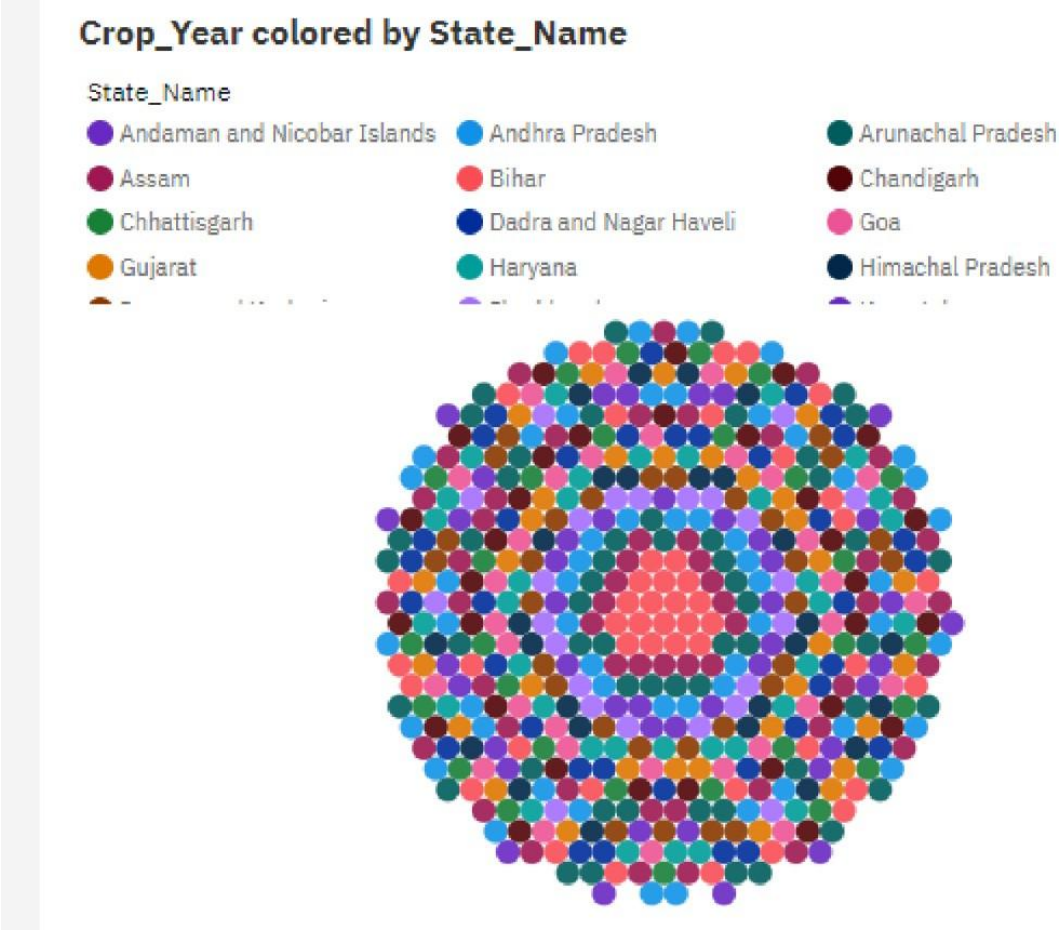

Crop Prediction
State
Choose...
FETCH
In Tamil Nadu ,
MADURAI
District
Season
Choose...
Choose...
Kharif
Whole Year
Summer
Rabi
Winter
Autumn


Crop Prediction
State
Choose...
FETCH
In Tamil Nadu ,
Choose...
District
Season
Choose...
RESULT
THE MADURAI WILL PRODUCE 1758.00 TONS OF Arhar/Tur DURING Whole Year
THE MADURAI WILL PRODUCE 100803.00 TONS OF Banana DURING Whole Year
THE MADURAI WILL PRODUCE 48.00 TONS OF Cashewnut DURING Whole Year


Crop Prediction
State
Choose...
Andaman and Nicobar Islands
Andhra Pradesh
Arunachal Pradesh
Assam
Bihar
Chandigarh
Chhattisgarh
Dadra and Nagar Haveli
Goa
Gujarat
Haryana
Himachal Pradesh
Jammu and Kashmir
Jharkhand
Karnataka
Kerala
Madhya Pradesh
Maharashtra
Manipur


Crop Prediction
State
Choose...
FETCH
In Karnataka ,
Choose...
District
Season
Choose...
RESULT
THE BANGALORE RURAL WILL PRODUCE 815.00 TONS OF Arhar/Tur DURING Kharif
THE BANGALORE RURAL WILL PRODUCE 149.00 TONS OF Castor seed DURING Kharif
THE BANGALORE RURAL WILL PRODUCE 6.00 TONS OF Cotton(lint) DURING Kharif

VISUALISATIONS:



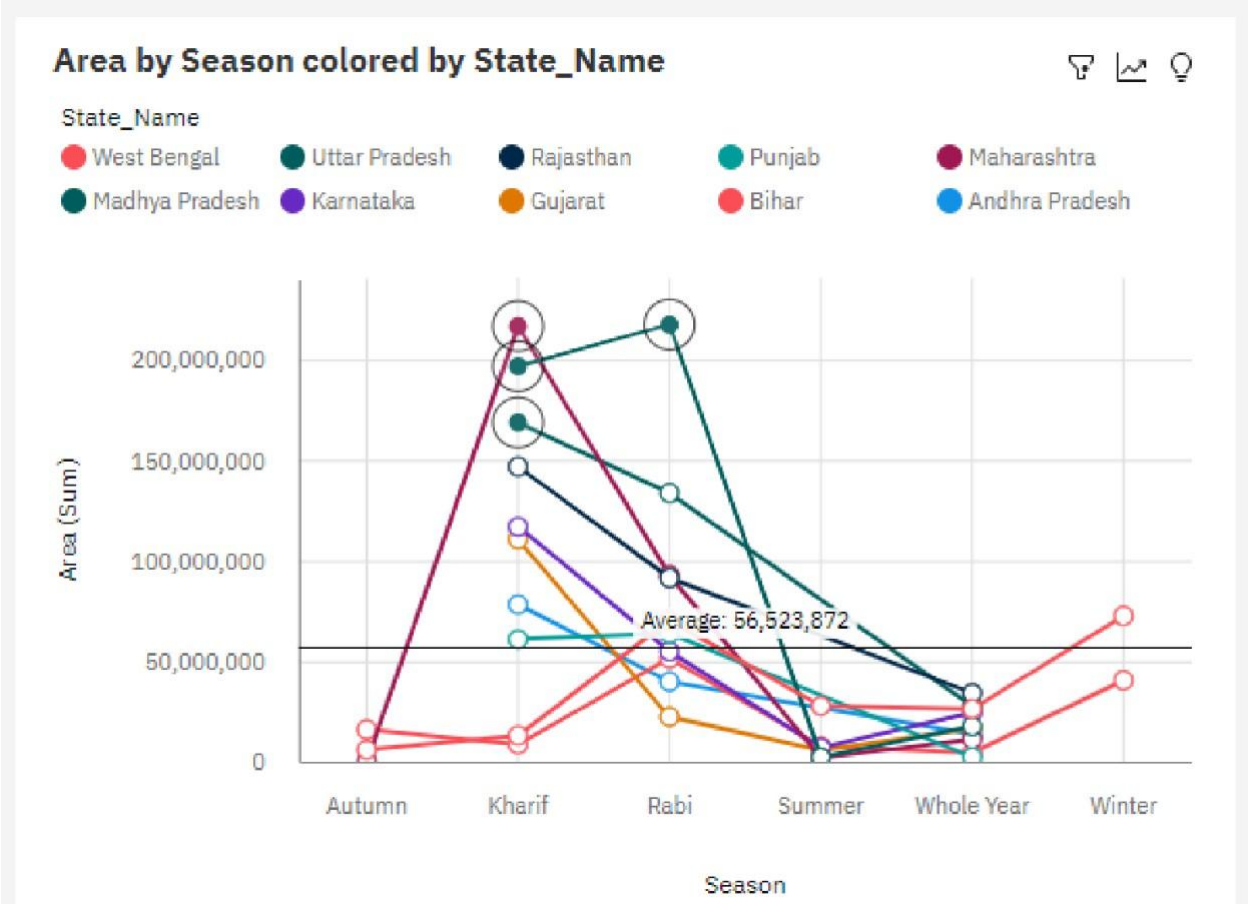
District_Name for State_Name and Crop_Year

District_Name	Andaman and Ni...	Andhra Pradesh	Arunachal Pradesh	Assam
1997	(no value)	13	13	
1998	(no value)	13	13	
1999	(no value)	13	13	
2000	2	13	13	
2001	2	13	13	
2002	2	13	15	
2003	2	13	15	
2004	2	13	16	
2005	2	13	16	
2006				

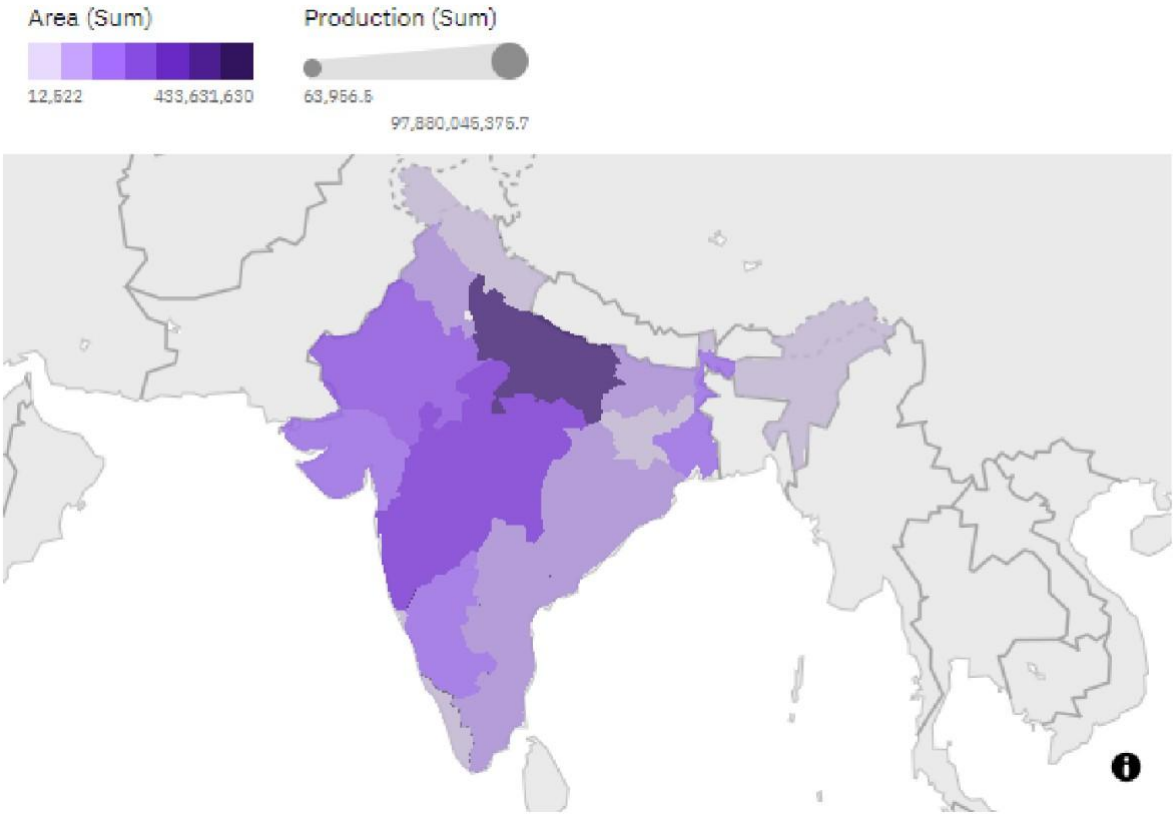

District_Name colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter

Season and Crop

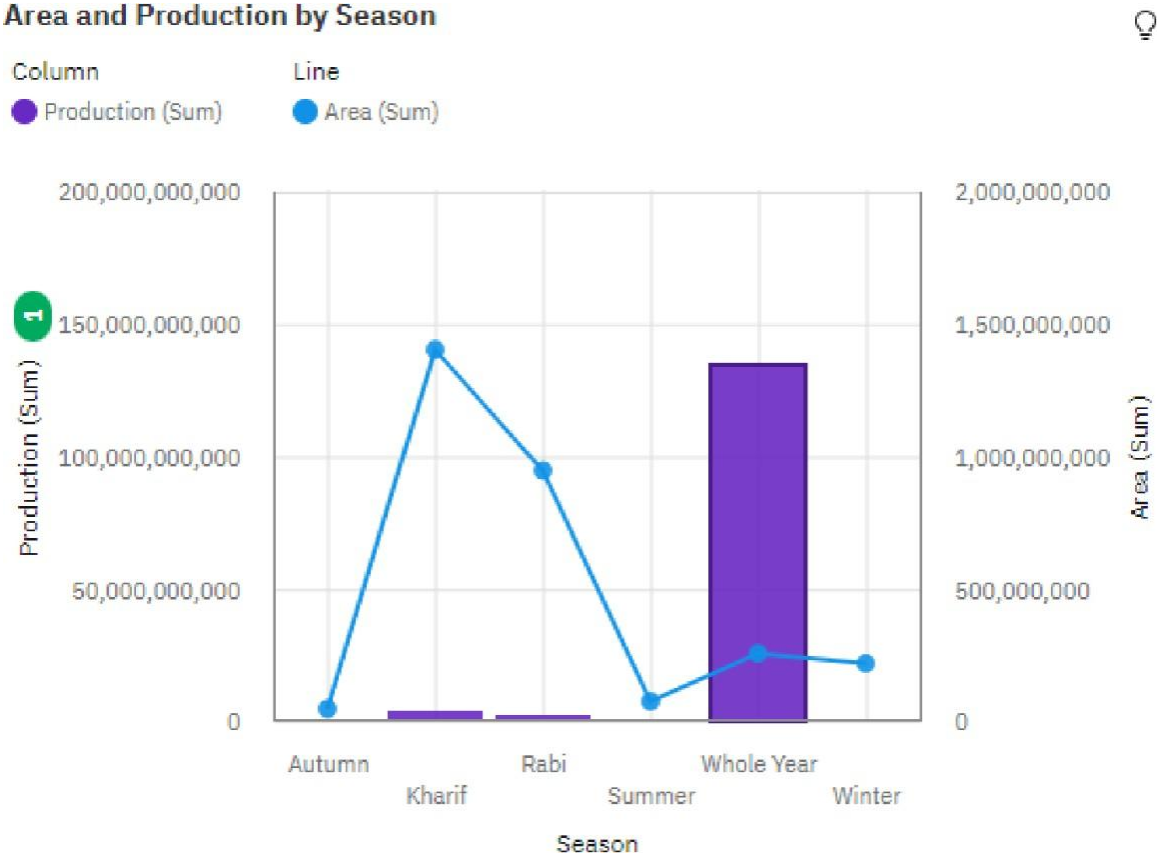
Crop	Season
Apple	Whole Year
Arcanut (Processed)	Whole Year
Arecanut	Kharif
	Rabi
	Whole Year
Arhar/Tur	Autumn
	Kharif
	Rabi
	Summer
	Whole Year
	Winter

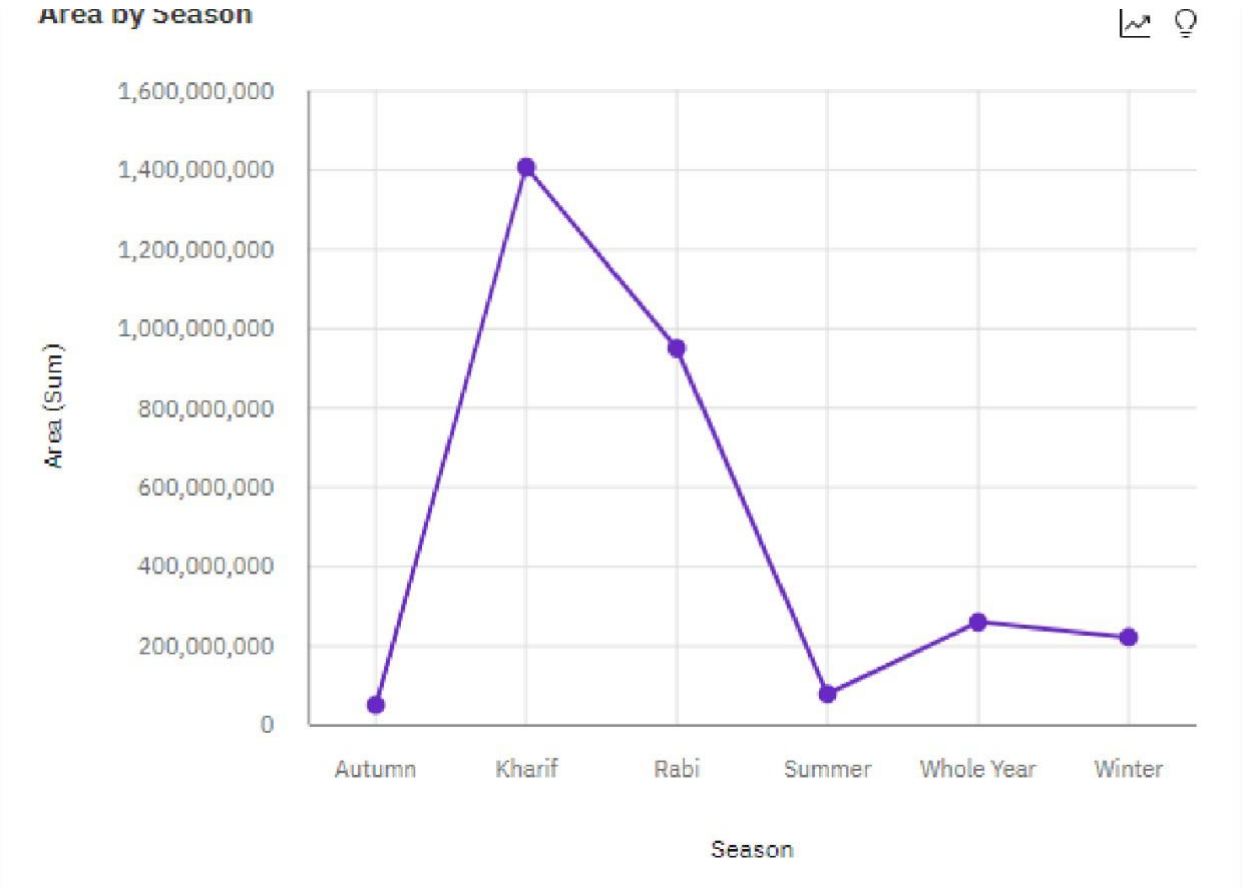

Area by Season colored by State_Name
State_Name
West Bengal
Uttar Pradesh
Rajasthan
Punjab
Maharashtra
Madhya Pradesh
Karnataka
Gujarat
Bihar
Andhra Pradesh
200,000,000
150,000,000
100,000,000
50,000,000
0
Area (Sum)
Average: 56,523,872
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season

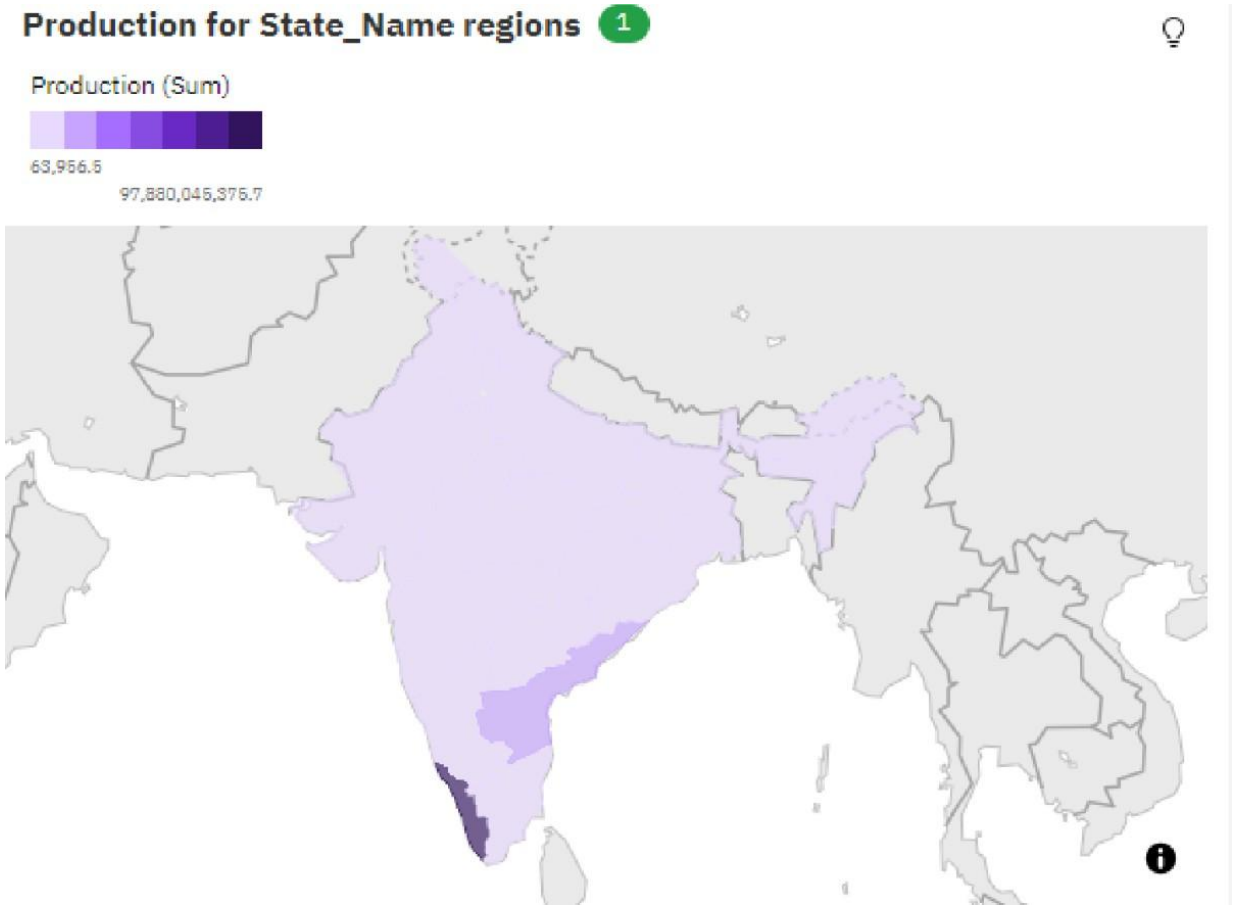
Area and Production for State_Name regions



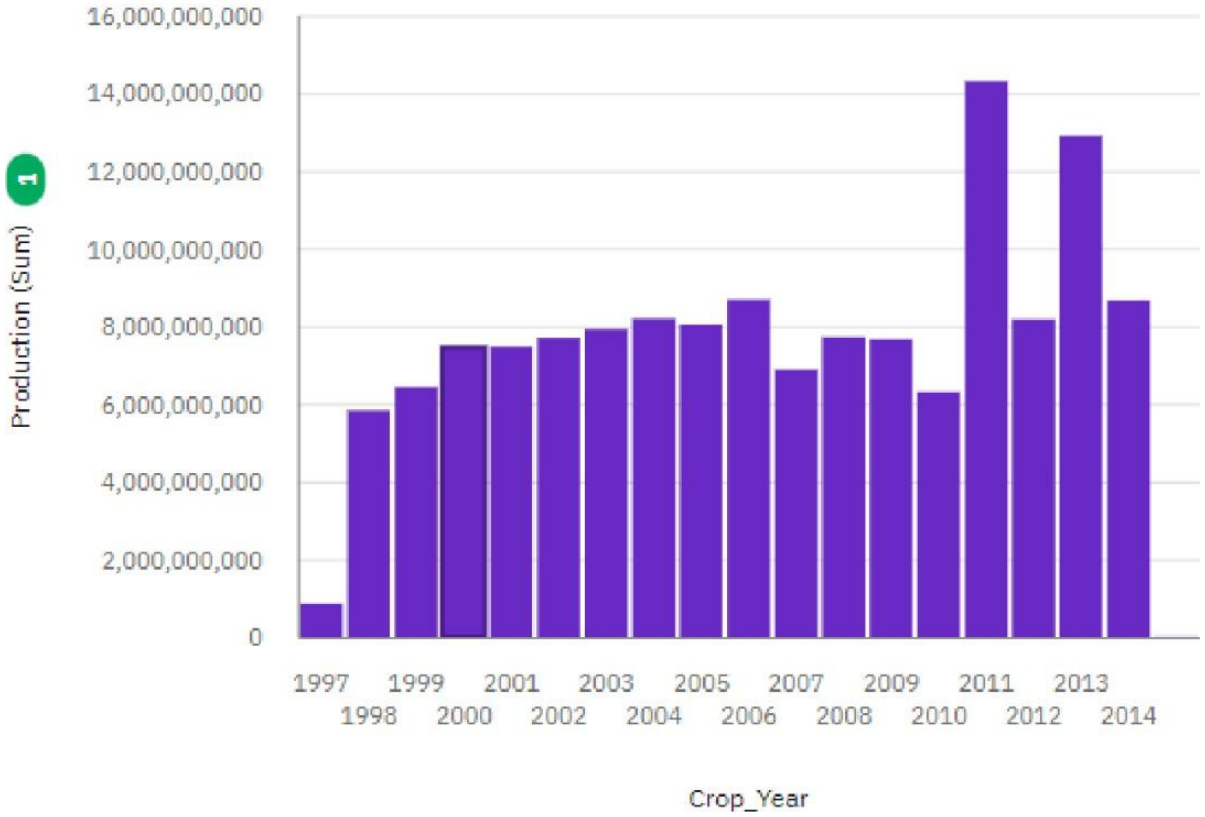
Area and Production by Season



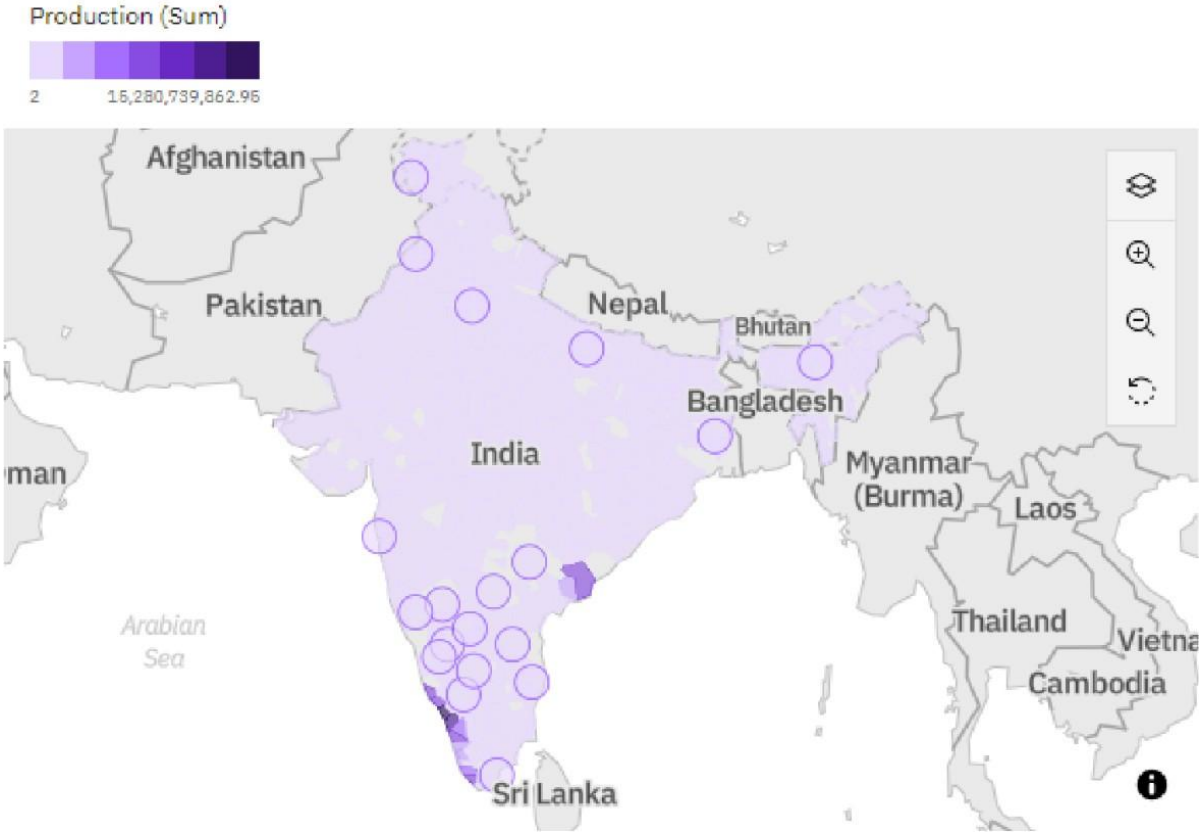

Area by Season
1,600,000,000
1,400,000,000
1,200,000,000
1,000,000,000
800,000,000
600,000,000
400,000,000
200,000,000
0
Area (Sum)
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season


Production for State_Name regions
1
Production (Sum)
63,966.6
97,880,045,375.7

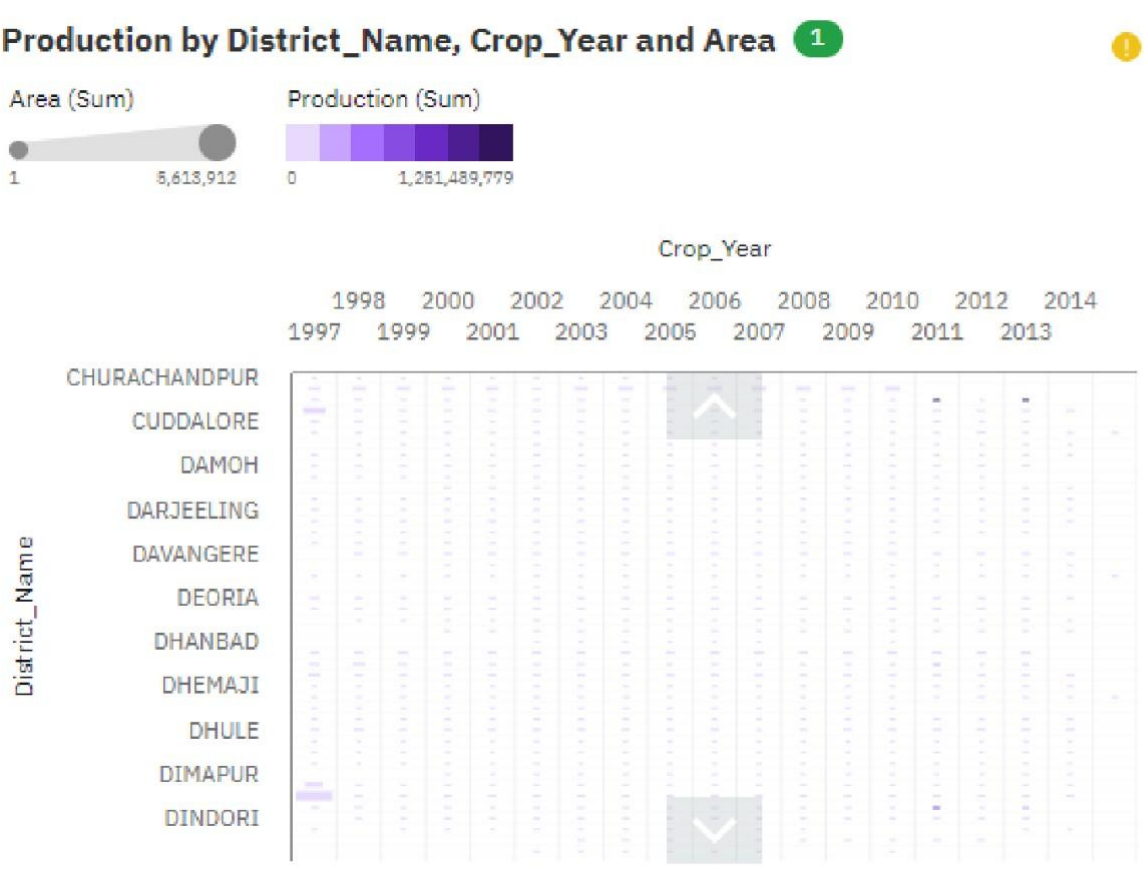
Production by Crop_Year



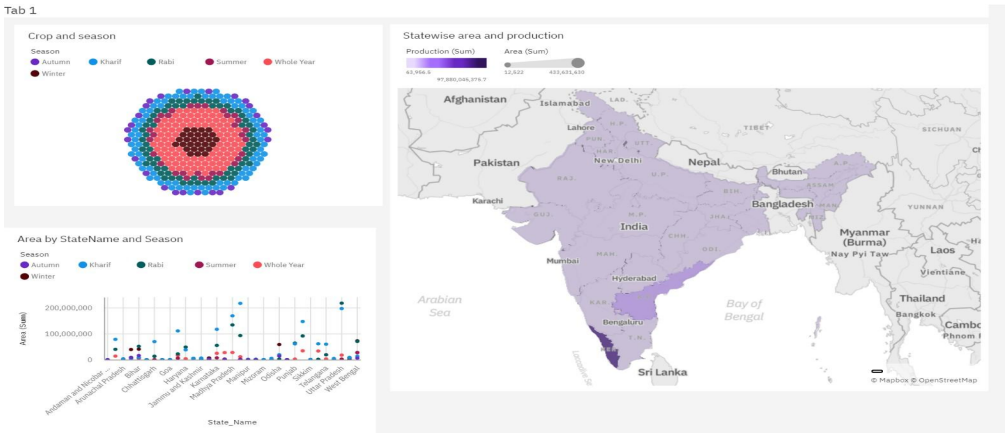
Production for District_Name regions



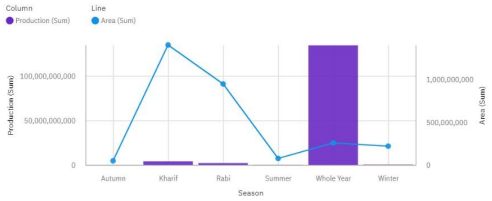
Production by State_Name and Crop_Year 1


Production by District_Name, Crop_Year and Area
1
Area (Sum)
1
8,618,912
Production (Sum)
0
1,251,489,779
Crop_Year
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
District_Name
CHURACHANDPUR
CUDDALORE
DAMOH
DARJEELING
DAVANGERE
DEORIA
DHANBAD
DHEMAJI
DHULE
DIMAPUR
DINDORI

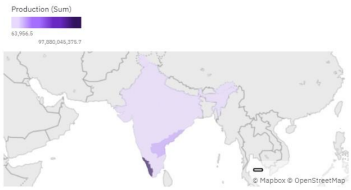
DASHBOARD:


Tab 1
Crop and season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Statewise area and production
Production (Sum)
Area (Sum)
Afghanistan
Islamabad
Lahore
Pakistan
New Delhi
Nepal
Bhutan
Karachi
Bangladesh
India
Myanmar
(Burma)
Nay Pyi Taw
Laos
Vientiane
Mumbai
Hyderabad
Arabian
Sea
Bay of
Bengal
Thailand
Bangkok
Bengaluru
Sri Lanka
© Mapbox © OpenStreetMap
Area by StateName and Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Area (Sum)
200,000,000
100,000,000
0
State_Name

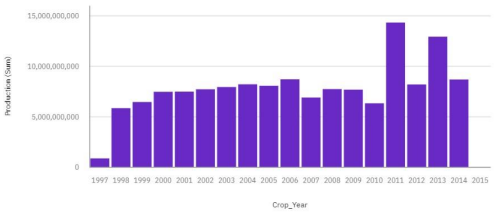
Area and Production by Season



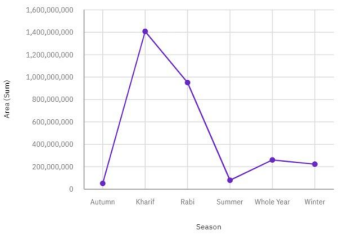
Production for State_Name regions



Production by Crop_Year



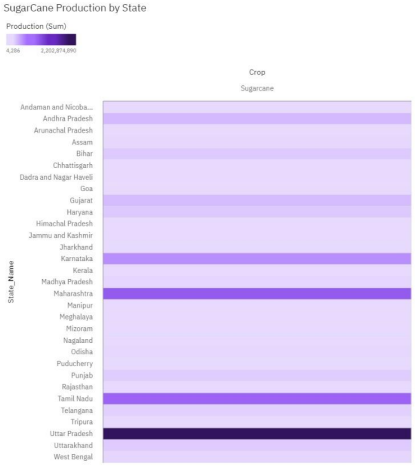
Area by Season



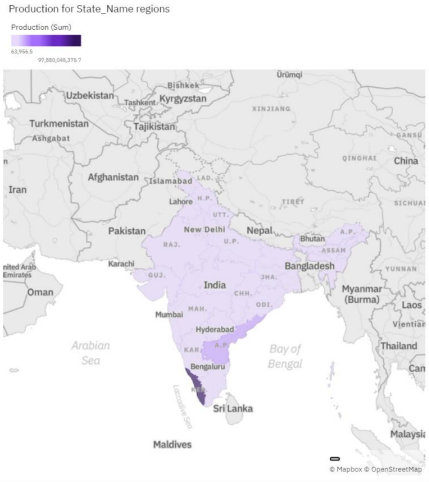
District wise production

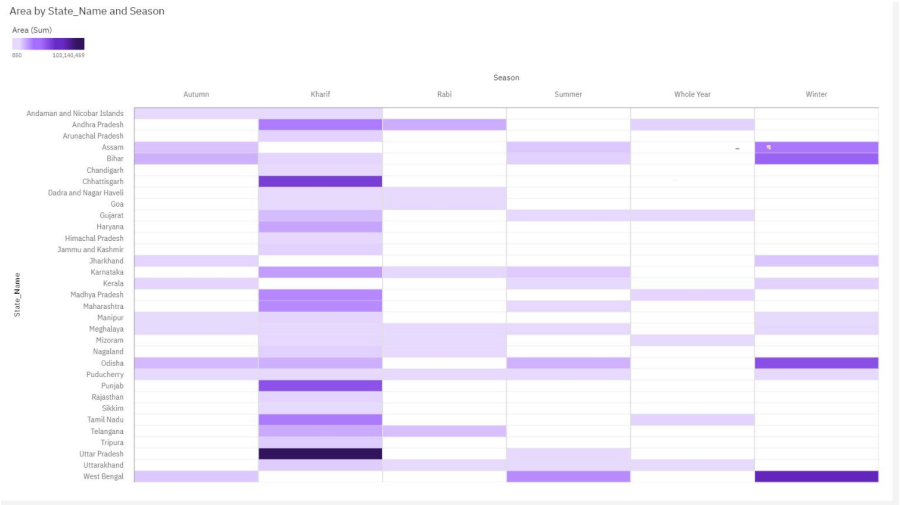
Production by State_Name and Crop_Year

SugarCane Production by State



Production for State_Name regions





STATES WITH CROP PRODUCTION ALONG WITH THE SEASON: