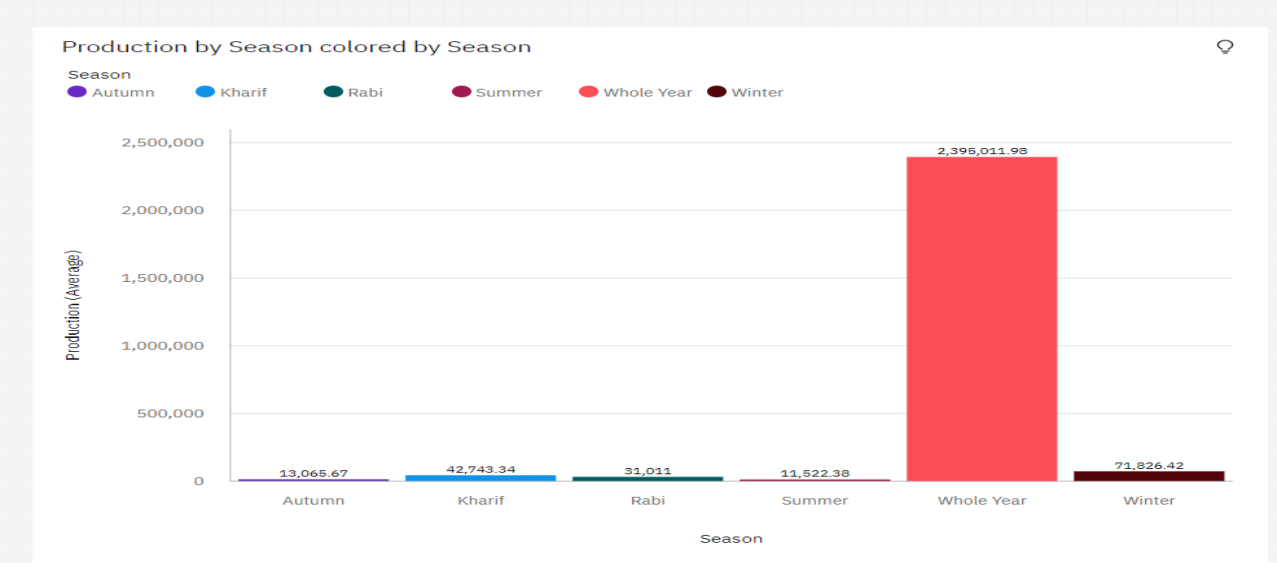
Project Development Phase
Model Performance Test

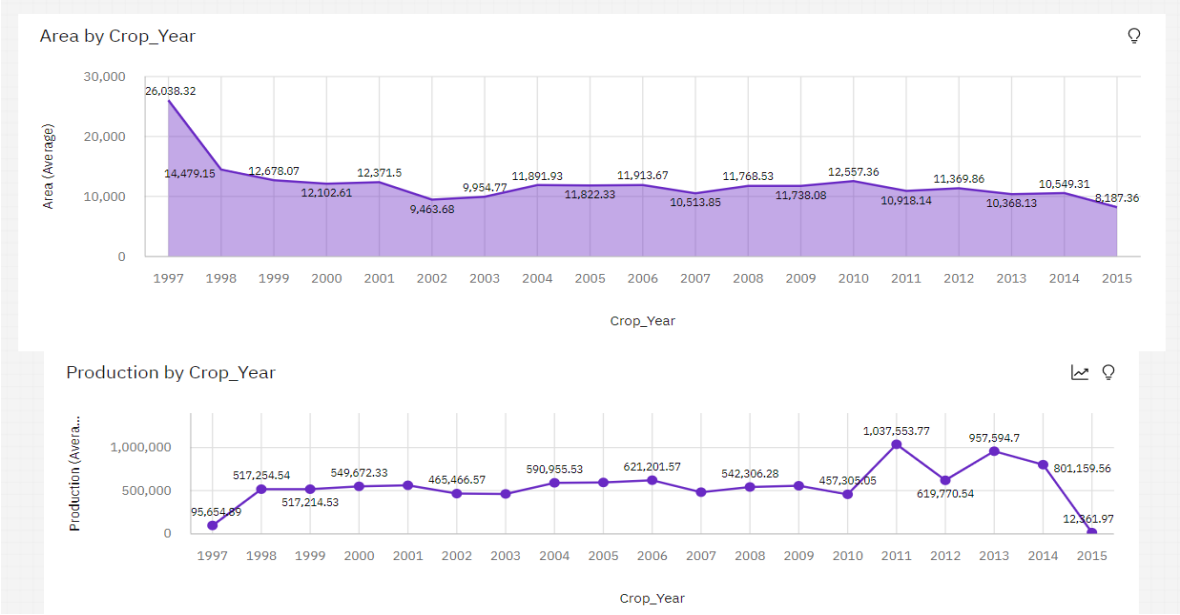
Date	10 November 2022
Team ID	PNT2022TMID42593
Project Name	Estimate the Crop Yield using Data Analytics
Maximum Marks	10 Marks

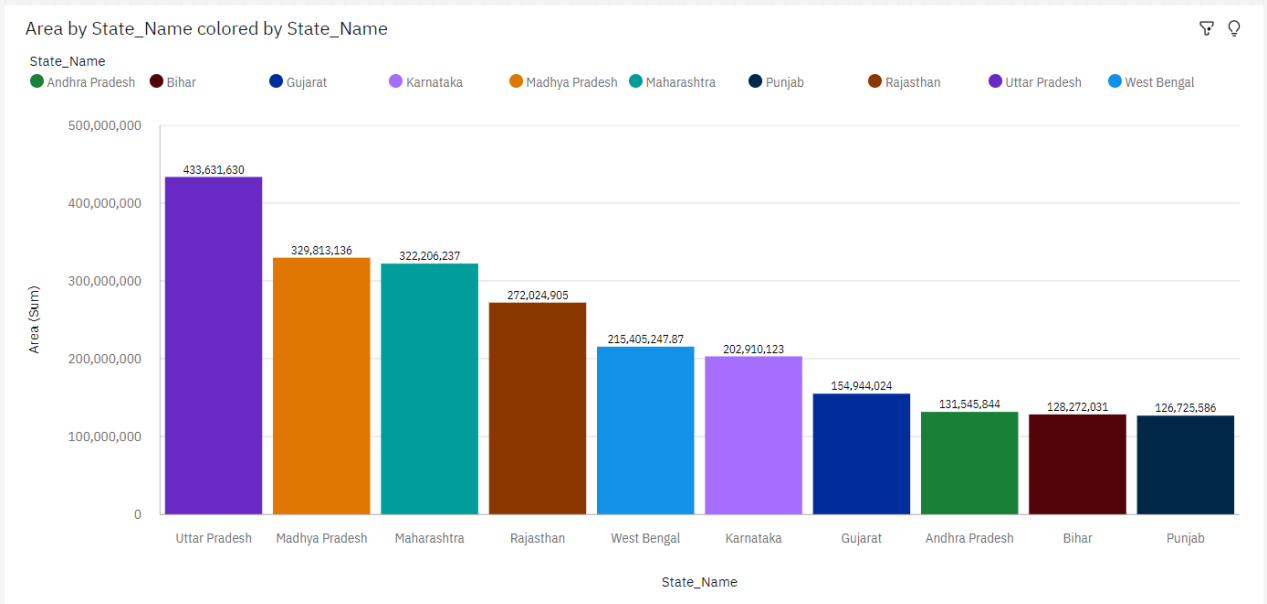
Model Performance Testing:

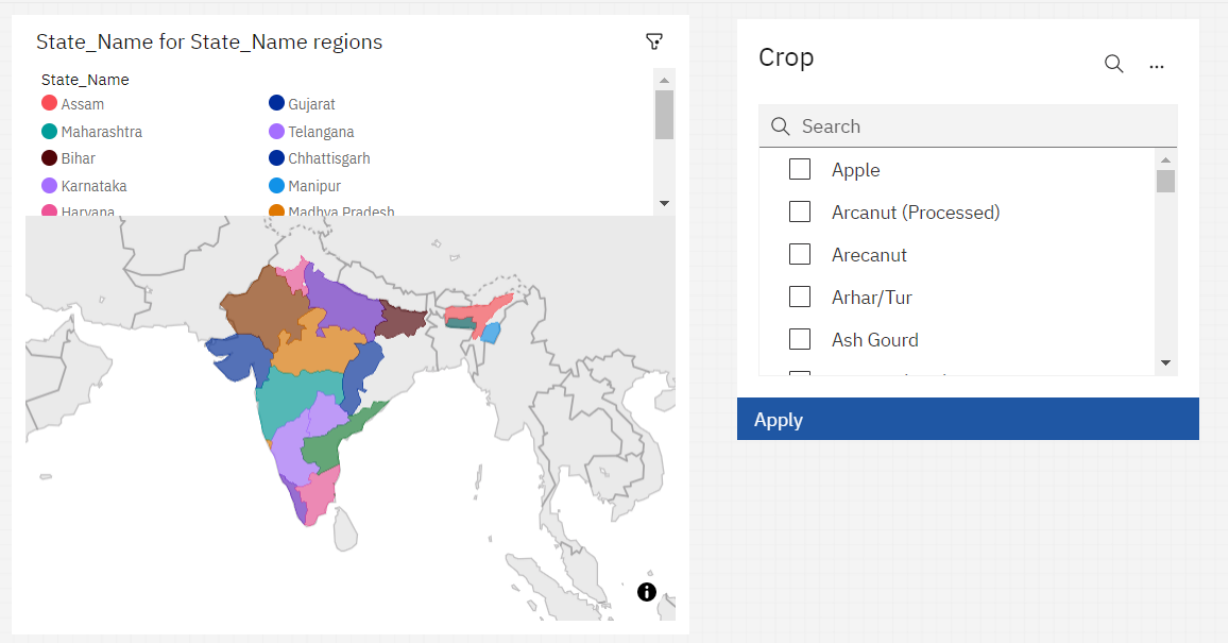
Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs - 5/7
2.	Data Responsiveness	Yes, CROP PRODUCTION DATASET The dataset contains 7 rows and 246091 record and dataset contains different state name, different district name, crop year ,crop, area, season and 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,Visualization andExploratory data analytics(EDA)
4.	Utilization of Data Filters	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 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 Average Crop Production by Seasons Showcase the Yearly usage of Area in Crop Production
6.	Descriptive Reports	No of Visulizations / 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 Area Visualization 4 - Crop Production by State Visualization5 - Represent the States with Seasonal Crop Production using a Text representation


Production by Season colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
Production (Average)
13,065.67
42,743.34
31,011
11,522.38
2,395,011.98
71,826.42
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Season


Area by Crop_Year
30,000
20,000
10,000
0
Area (Average)
26,038.32
14,479.15
12,678.07
12,102.61
12,371.5
9,463.68
9,954.77
11,891.93
11,822.33
11,913.67
10,513.85
11,768.53
11,738.08
12,557.36
10,918.14
11,369.86
10,368.13
10,549.31
8,187.36
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Crop_Year
Production by Crop_Year
1,000,000
500,000
0
Production (Avera...
95,654.89
517,254.54
517,214.53
549,672.33
465,466.57
590,955.53
621,201.57
542,306.28
457,305.05
1,037,553.77
619,770.54
957,594.7
801,159.56
12,361.97
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
Crop_Year


Area by State_Name colored by State_Name
State_Name
Andhra Pradesh
Bihar
Gujarat
Karnataka
Madhya Pradesh
Maharashtra
Punjab
Rajasthan
Uttar Pradesh
West Bengal
500,000,000
400,000,000
300,000,000
200,000,000
100,000,000
0
Area (Sum)
433,631,630
329,813,136
322,206,237
272,024,905
215,405,247.87
202,910,123
154,944,024
131,545,844
128,272,031
126,725,586
Uttar Pradesh
Madhya Pradesh
Maharashtra
Rajasthan
West Bengal
Karnataka
Gujarat
Andhra Pradesh
Bihar
Punjab
State_Name


State_Name for State_Name regions
State_Name
Assam
Gujarat
Maharashtra
Telangana
Bihar
Chhattisgarh
Karnataka
Manipur
Haryana
Madhya Pradesh
Crop
Search
Apple
Arcanut (Processed)
Arecanut
Arhar/Tur
Ash Gourd
Apply

State_Name and Crop

Crop	State_Name
Apple	Tamil Nadu
Arcanut (Processed)	Karnataka
Arecanut	Andaman and Nicobar Islands
	Andhra Pradesh
	Assam
	Goa
	Karnataka
	Kerala
	Meghalaya
	Puducherry
	Tamil Nadu
	West Bengal
	Andaman and Nicobar Islands
	Andhra Pradesh
	Assam

Crop

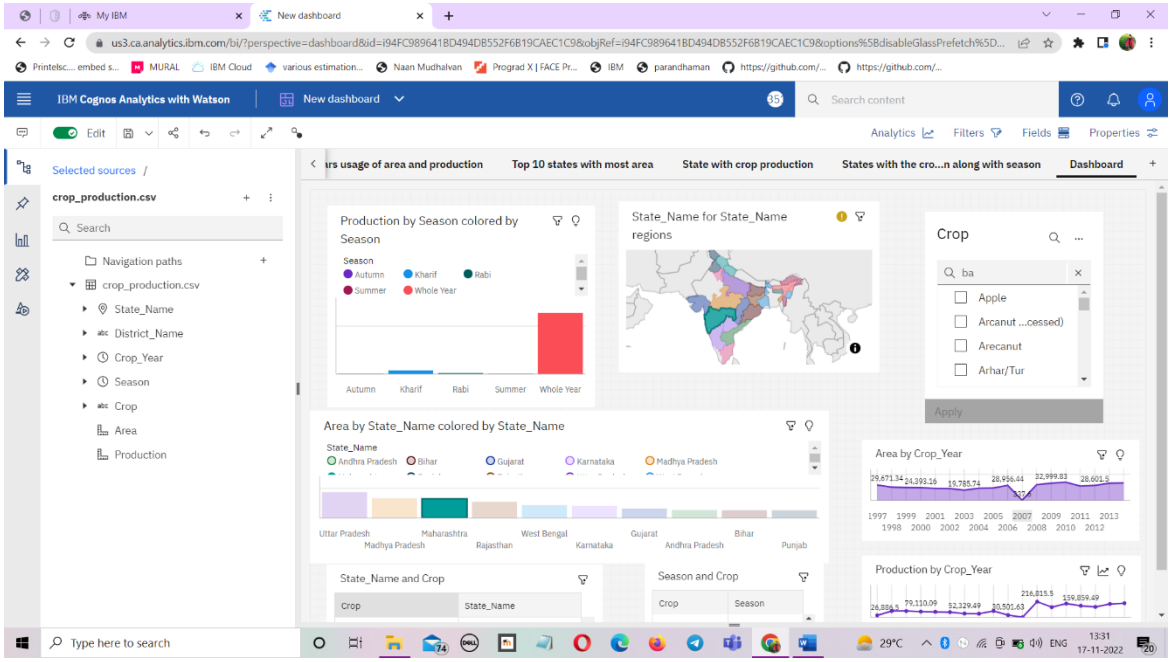
Search

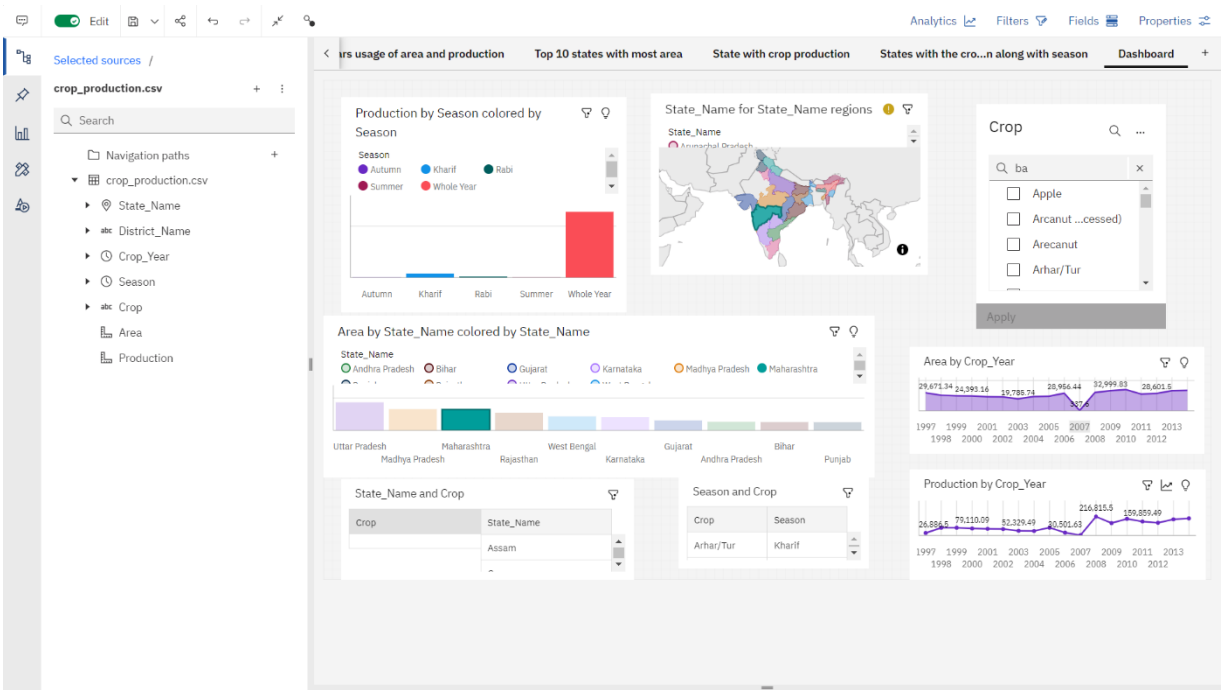
- Apple
- Arcanut (Processed)
- Arecanut
- Arhar/Tur
- Ash Gourd

Apply

Season and Crop

Crop	Season
Arhar/Tur	Kharif
Bajra	Kharif
Banana	Whole Year
Barley	Rabi
Castor seed	Kharif




Edit
Analytics
Filters
Fields
Properties
Selected sources /
crop_production.csv
Search
Navigation paths
crop_production.csv
State_Name
District_Name
Crop_Year
Season
Crop
Area
Production
rs usage of area and production
Top 10 states with most area
State with crop production
States with the cro...n along with season
Dashboard
Production by Season colored by Season
Season
Autumn
Kharif
Rabi
Summer
Whole Year
State_Name for State_Name regions
State_Name
Crop
ba
Apple
Arcanut ...cessed)
Arecanut
Arhar/Tur
Apply
Area by State_Name colored by State_Name
State_Name
Andhra Pradesh
Bihar
Gujarat
Karnataka
Madhya Pradesh
Maharashtra
Uttar Pradesh
Maharashtra
West Bengal
Gujarat
Bihar
Madhya Pradesh
Rajasthan
Karnataka
Andhra Pradesh
Punjab
Area by Crop_Year
29,671.34
24,393.16
19,786.74
28,954.44
32,999.83
28,601.5
1997 1999 2001 2003 2005 2007 2009 2011 2013
1998 2000 2002 2004 2006 2008 2010 2012
State_Name and Crop
Crop
State_Name
Assam
Season and Crop
Crop
Season
Arhar/Tur
Kharif
Production by Crop_Year
26,884.5
79,110.09
52,329.49
30,501.63
216,815.5
159,859.49
1997 1999 2001 2003 2005 2007 2009 2011 2013
1998 2000 2002 2004 2006 2008 2010 2012