Project Development Phase
Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID23966
Project Name	Project – Estimate the crop yield using Data Analytics
Maximum Marks	10 Marks

Model Performance Testing:

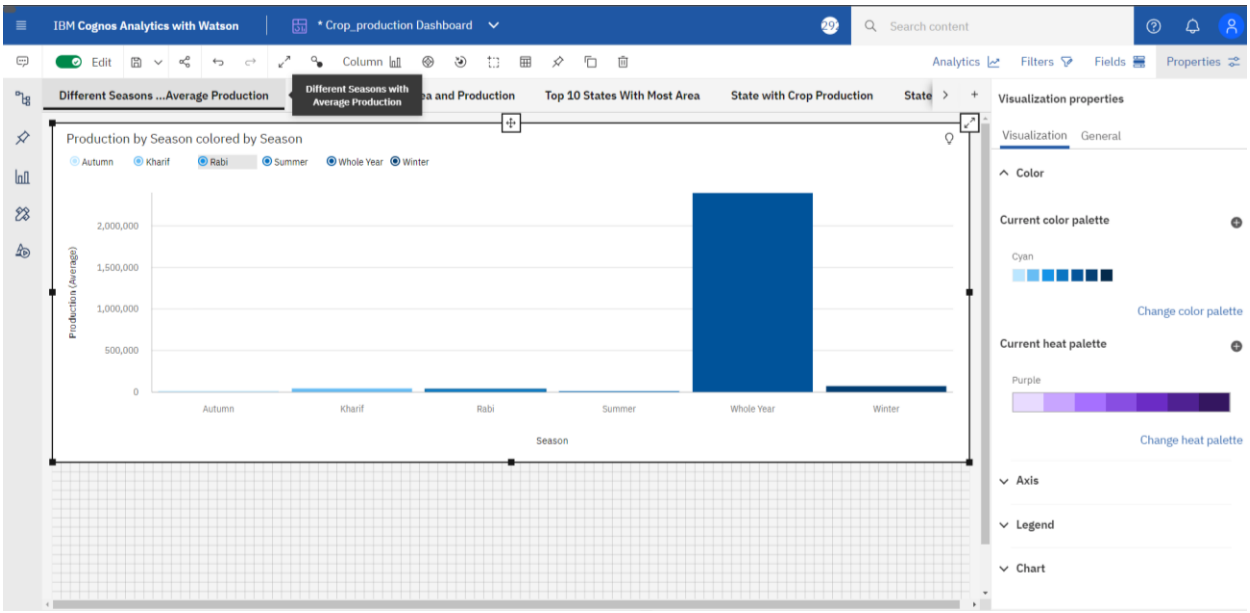
Project team shall fill the following information in model performance testing template.

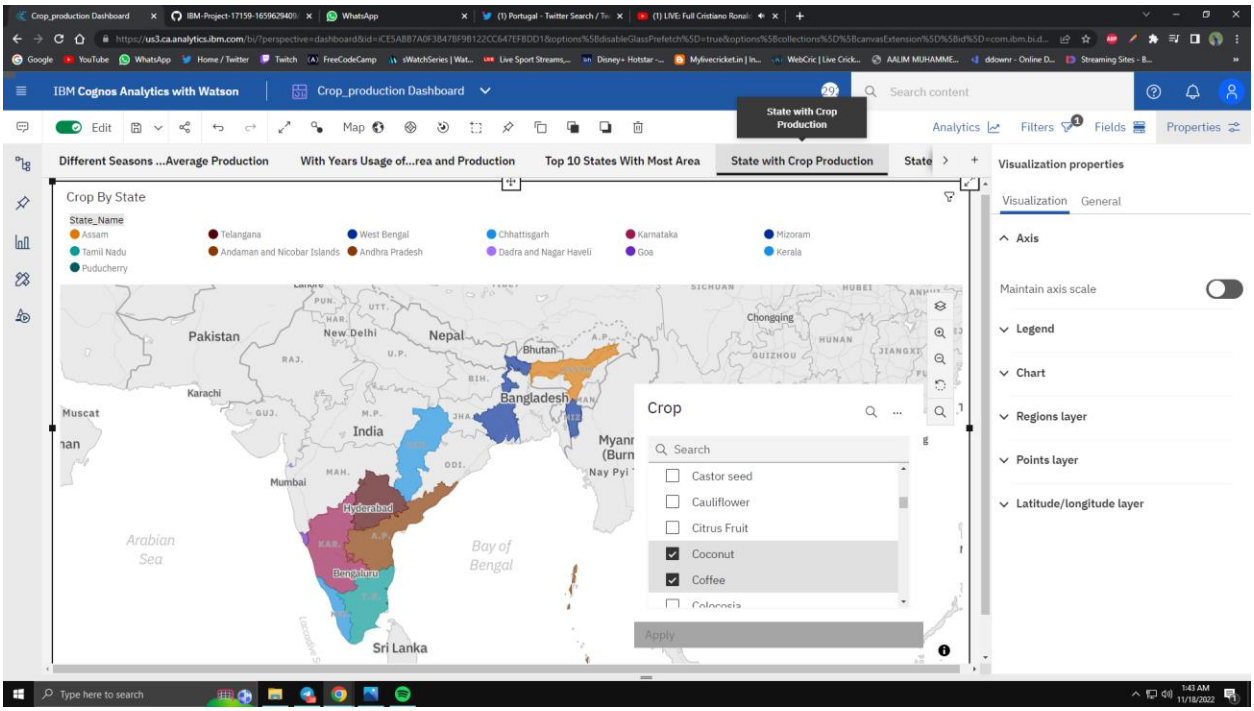
S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visulizations / Graphs – 6 Dashboard link : https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pathRef=.my_folders%2FCrop_production%2BDashboard&action=view&mode=dashboard&subView=model0000018486fc260d_00000000
2.	Data Responsiveness	Dataset downloaded from kaggle.com and uploaded in IBM Cognos. This project is based on 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 : https://www.kaggle.com/datasets/abhinand05/crop-production-in-india
3.	Amount Data to Rendered (DB2 Metrics)	The data is uploaded in IBM Cognos in the format of .csv file to create dashboard, report and story in IBM Cognos Analytics
4.	Utilization of Data Filters	No of Data Filters used – 25
5.	Effective User Story	No of Scene Added – 6 Slideshow template is used to create a story. Story link : https://us3.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2FCrop_production%2Bstory&action=view&sceneId=model000001848f05017c_00000002&sceneTime=0

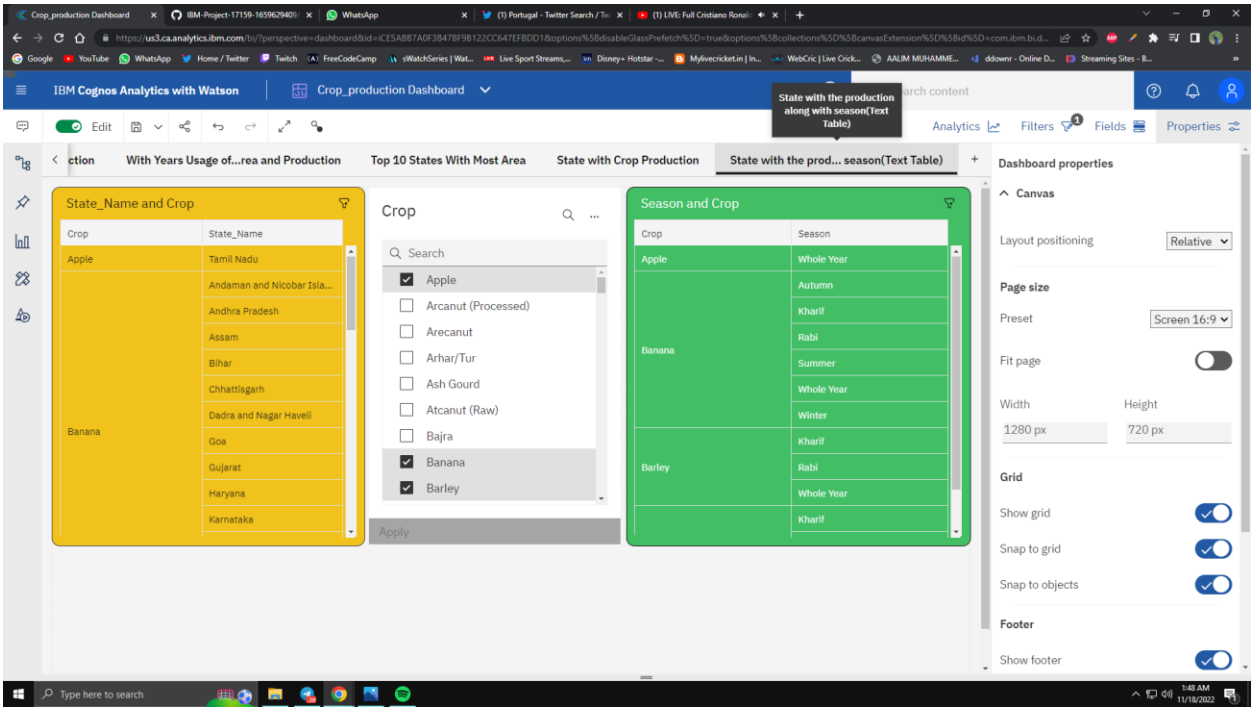
6.	Descriptive Reports	No of Visulizations / Graphs – 4(2 by 2 Template) Report link : https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FCrop_production%2BReport&action=run&format=HTML&prompt=false

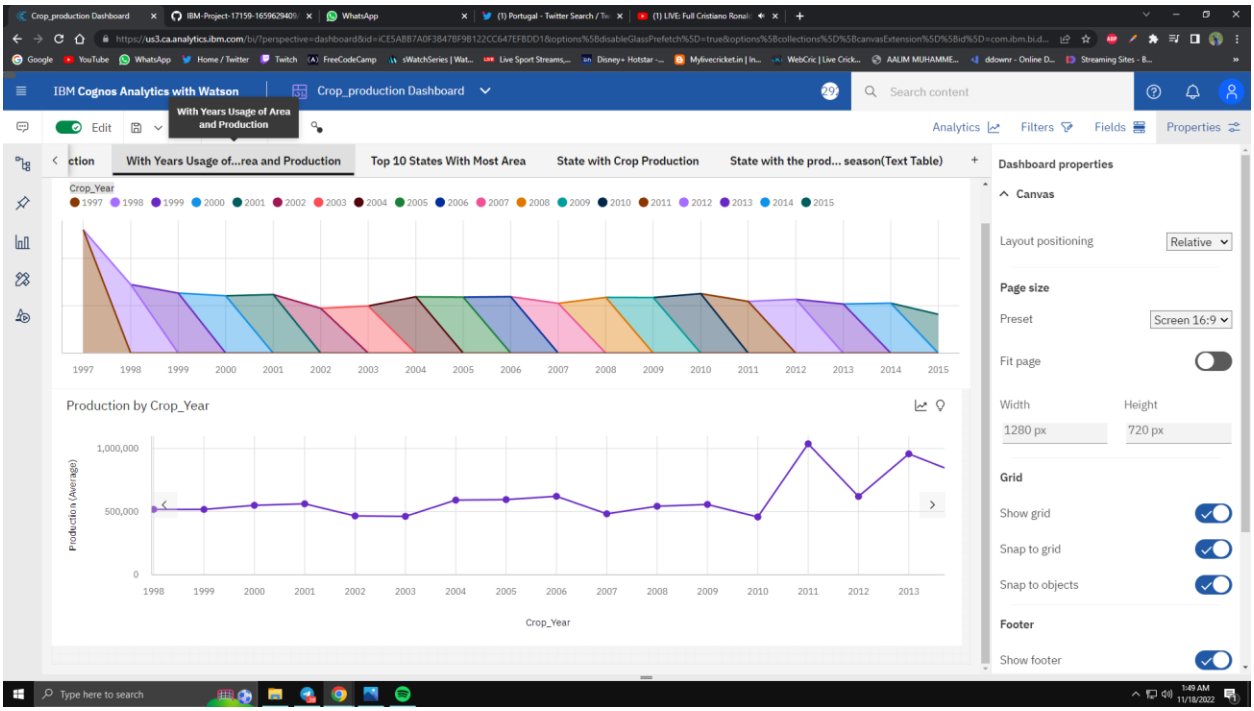
SNAPSHOTS

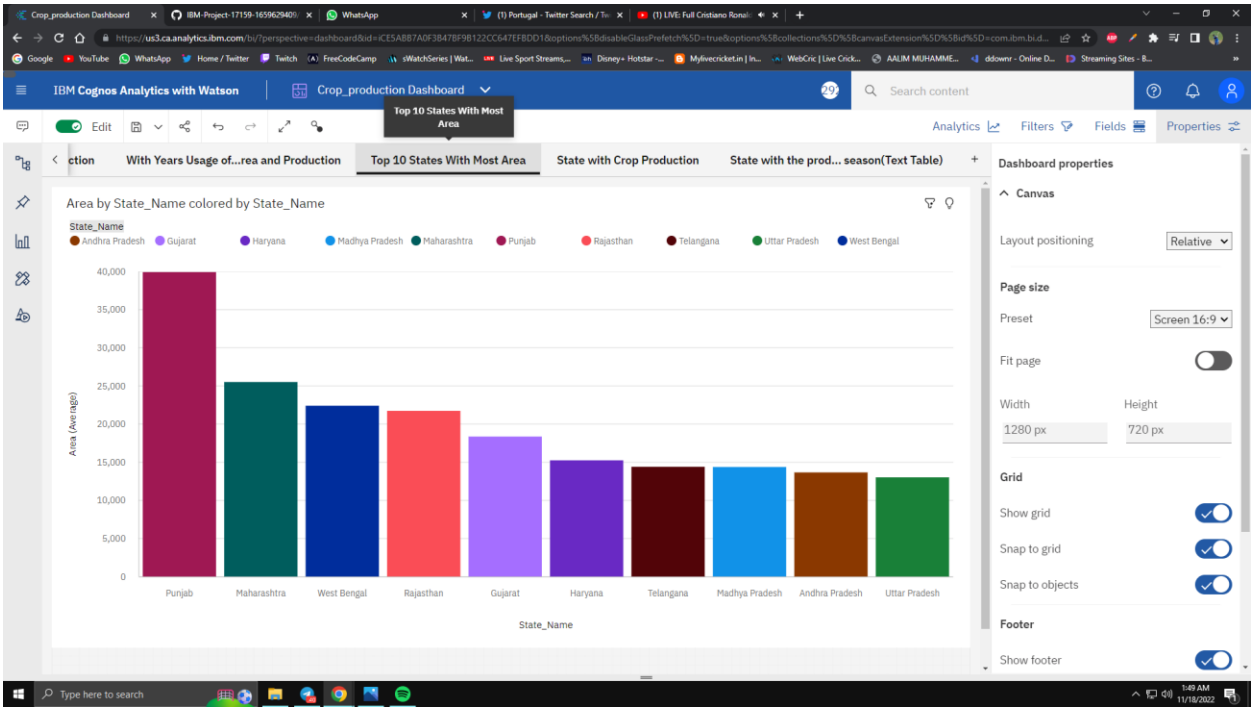
DASHBOARD:



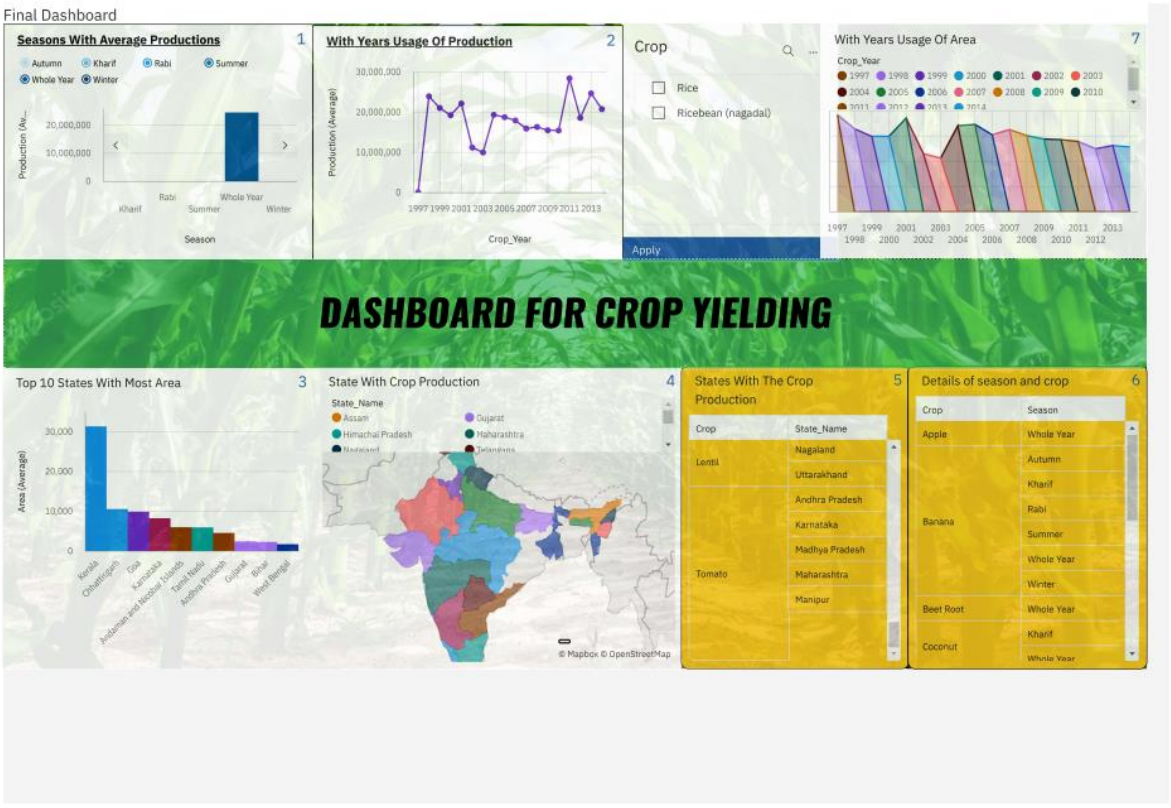

IBM Cognos Analytics with Watson
Crop_production Dashboard
State with Crop Production
Different Seasons ...Average Production
With Years Usage of...rea and Production
Top 10 States With Most Area
State with Crop Production
Crop By State
State_Name
Assam
Telangana
West Bengal
Chhattisgarh
Karnataka
Mizoram
Tamil Nadu
Andaman and Nicobar Islands
Andhra Pradesh
Dadra and Nagar Haveli
Goa
Kerala
Puducherry
Pakistan
New Delhi
Nepal
Bhutan
Bangladesh
India
Karachi
Muscat
Mumbai
Hyderabad
Bengaluru
Arabian Sea
Bay of Bengal
Sri Lanka
Chongqing
Crop
Search
Castor seed
Cauliflower
Citrus Fruit
Coconut
Coffee
Apply
Visualization properties
Visualization
General
Axis
Maintain axis scale
Legend
Chart
Regions layer
Points layer
Latitude/longitude layer


IBM Cognos Analytics with Watson
Crop_production Dashboard
State with the production along with season(Text Table)
With Years Usage of...rea and Production
Top 10 States With Most Area
State with Crop Production
State with the prod... season(Text Table)
State_Name and Crop
Crop
State_Name
Apple
Tamil Nadu
Andaman and Nicobar Isla...
Andhra Pradesh
Assam
Bihar
Chhattisgarh
Dadra and Nagar Haveli
Banana
Goa
Gujarat
Haryana
Karnataka
Crop
Search
Apple
Arcanut (Processed)
Arecanut
Arhar/Tur
Ash Gourd
Atcanut (Raw)
Bajra
Banana
Barley
Apply
Season and Crop
Crop
Season
Apple
Whole Year
Banana
Autumn
Kharif
Rabi
Summer
Whole Year
Winter
Barley
Kharif
Rabi
Whole Year
Kharif
Dashboard properties
Canvas
Layout positioning
Relative
Page size
Preset
Screen 16:9
Fit page
Width
Height
1280 px
720 px
Grid
Show grid
Snap to grid
Snap to objects
Footer
Show footer

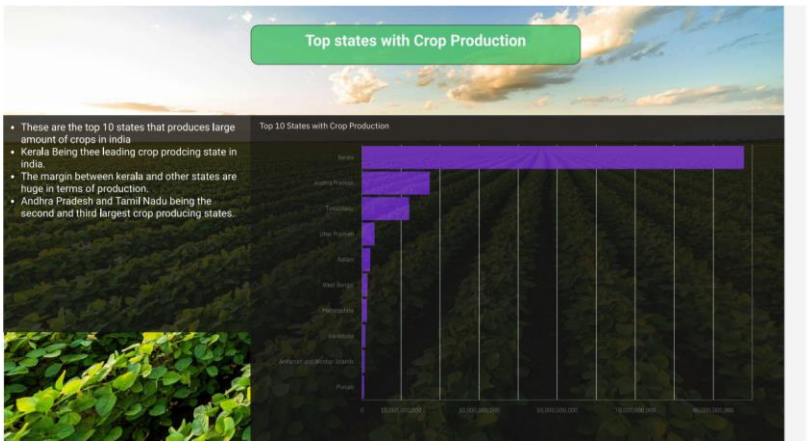

IBM Cognos Analytics with Watson
Crop_production Dashboard
With Years Usage of Area and Production
Edit
Analytics
Filters
Fields
Properties
With Years Usage of...rea and Production
Top 10 States With Most Area
State with Crop Production
State with the prod... season(Text Table)
Crop_Year
Production by Crop_Year
Production (Average)
Crop_Year
Dashboard properties
Canvas
Layout positioning
Relative
Page size
Preset
Screen 16:9
Fit page
Width
Height
1280 px
720 px
Grid
Show grid
Snap to grid
Snap to objects
Footer
Show footer


IBM Cognos Analytics with Watson
Crop_production Dashboard
Top 10 States With Most Area
Edit
Analytics
Filters
Fields
Properties
With Years Usage of...rea and Production
Top 10 States With Most Area
State with Crop Production
State with the prod... season(Text Table)
Area by State_Name colored by State_Name
State_Name
Area (Average)
Punjab
Maharashtra
West Bengal
Rajasthan
Gujarat
Haryana
Telangana
Madhya Pradesh
Andhra Pradesh
Uttar Pradesh
State_Name
Dashboard properties
Canvas
Layout positioning
Relative
Page size
Preset
Screen 16:9
Fit page
Width
Height
1280 px
720 px
Grid
Show grid
Snap to grid
Snap to objects
Footer
Show footer

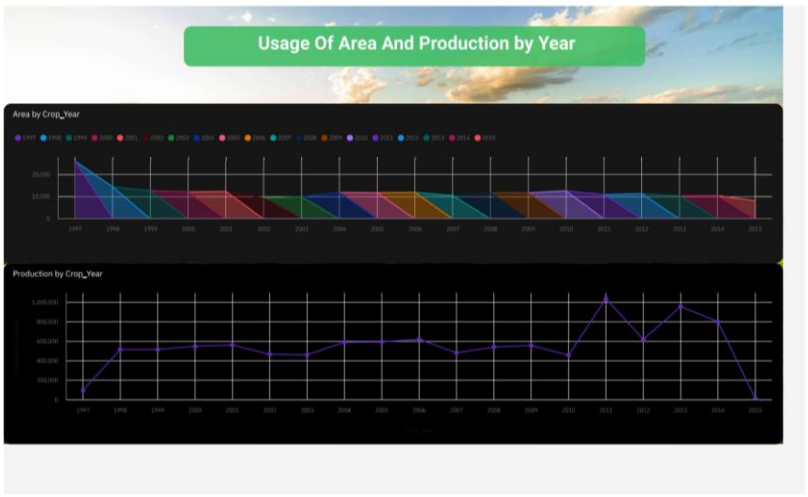
Final Dashboard



STORY:


Top states with Crop Production
These are the top 10 states that produces large amount of crops in india
Kerala Being thee leading crop prodcing state in india.
The margin between kerala and other states are huge in terms of production.
Andhra Pradesh and Tamil Nadu being the second and third largest crop producing states.
Top 10 States with Crop Production

States With Crop Production
Crop
Search
Apple
Arcanut (Processed)
Arecanut
Arhar/Tur
Ash Gourd
Atcanut (Raw)
Bajra
Banana
Barley
Bean
Beans & Mutter(Vegetable)
Beet Root
Ber
Bhindi
Bitter Gourd
Black pepper
Blackgram
States with crop production
Sri Lanka
Colombo
Maldives
Male
Bay of Bengal



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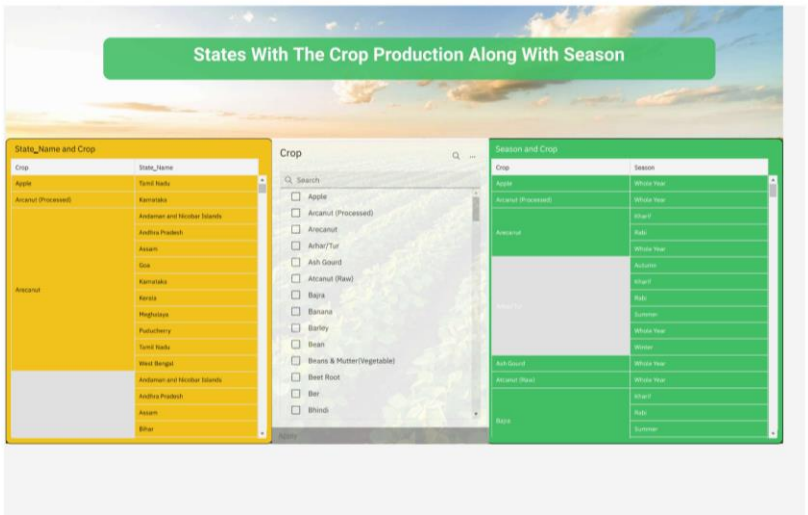
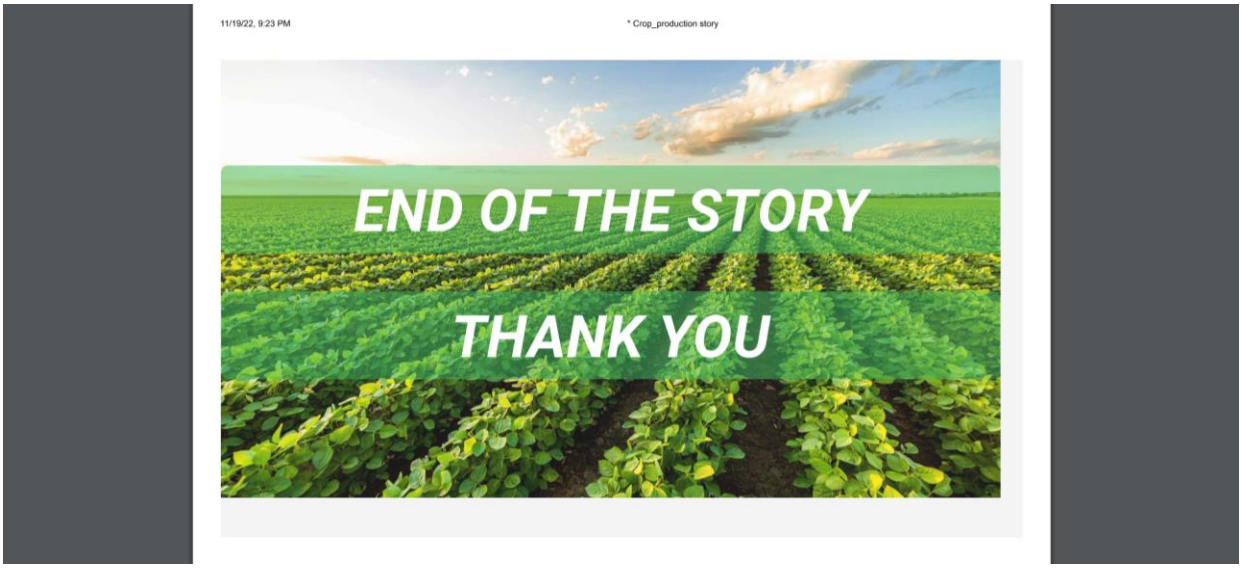
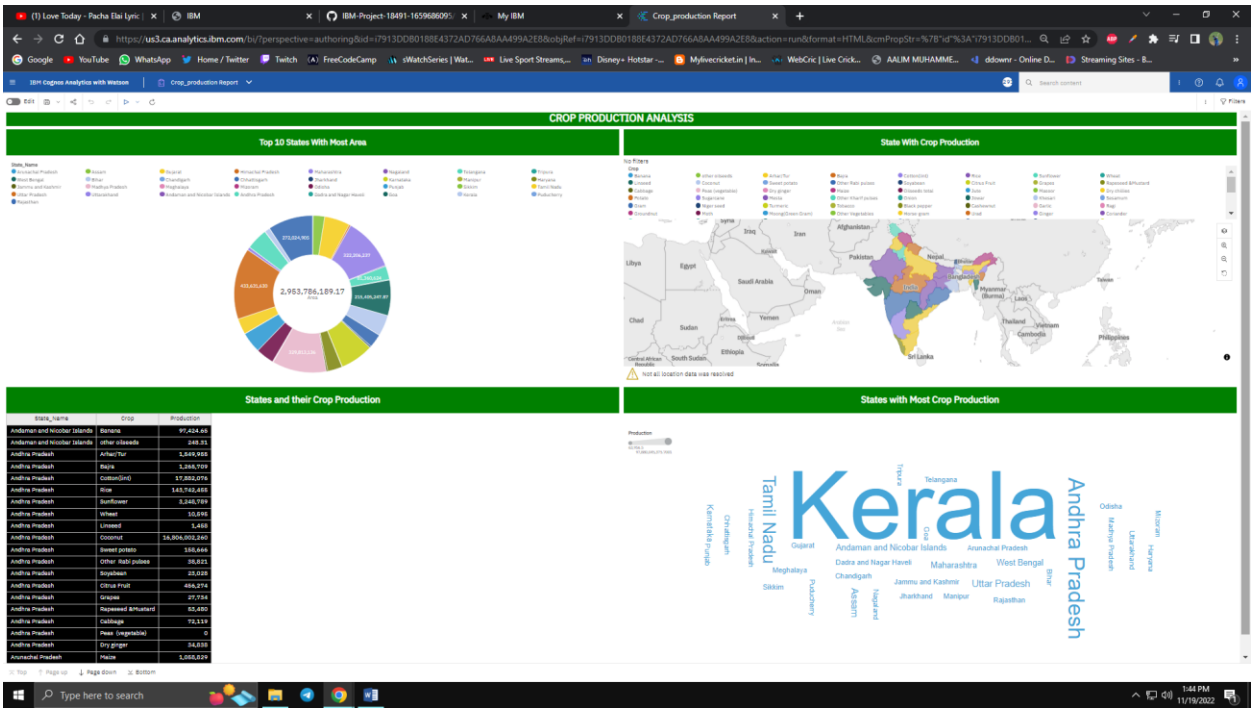



11/19/22, 9:23 PM
* Crop_production story
END OF THE STORY
THANK YOU

REPORT:


CROP PRODUCTION ANALYSIS
Top 10 States With Most Area
State With Crop Production
States and their Crop Production
States with Most Crop Production
Kerala
Tamil Nadu
Andhra Pradesh