Project Development Phase
Model Performance Test

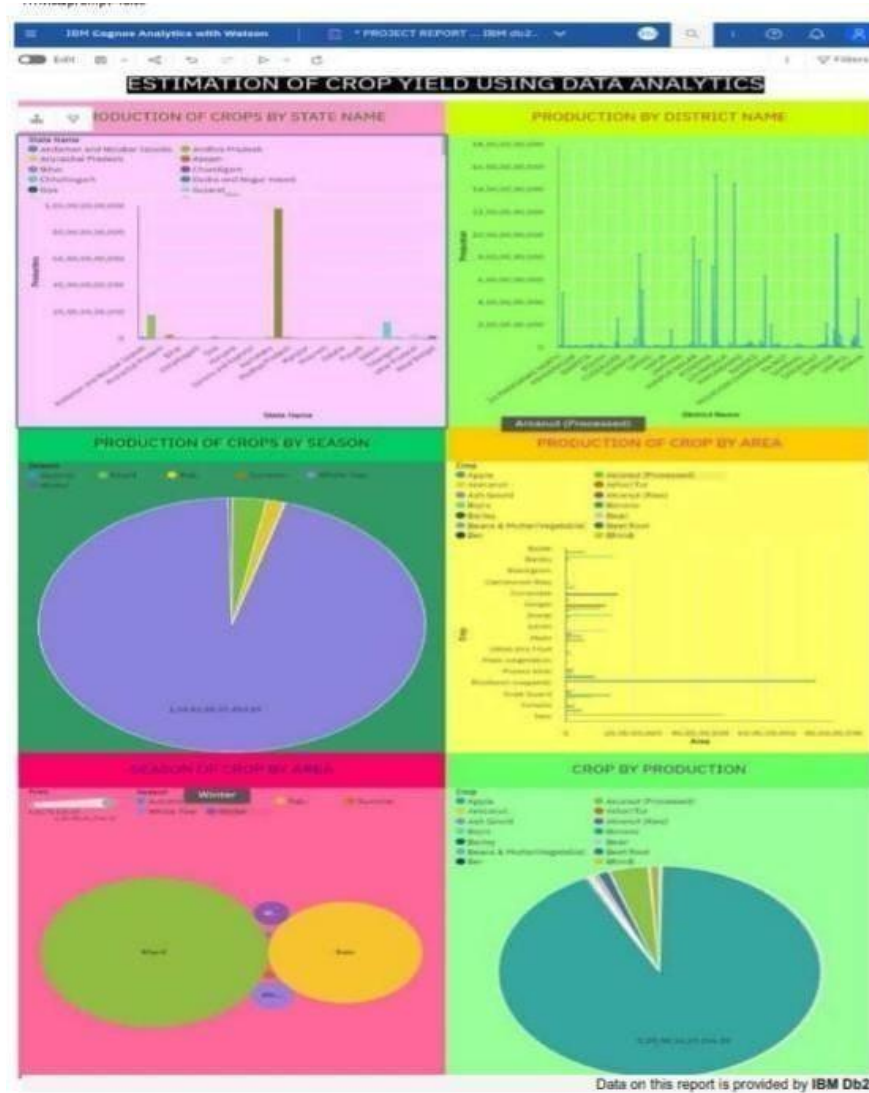| Date	18 November 2022
Team ID	PNT2022TMID18532
Project Name	Estimate The Crop Yield Using Data Analytics
Maximum Marks	10 Marks

Model Performance Testing:

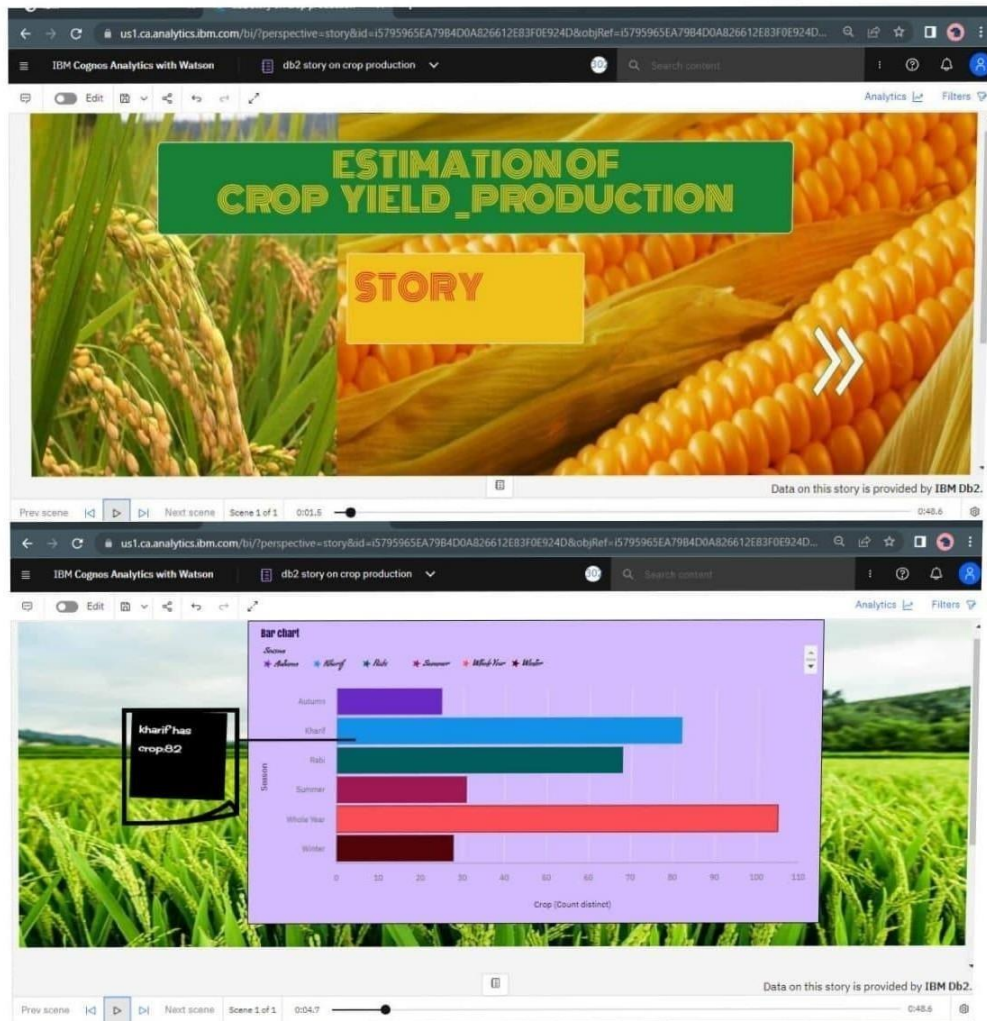Project team shall fill the following information in model performance testing template.

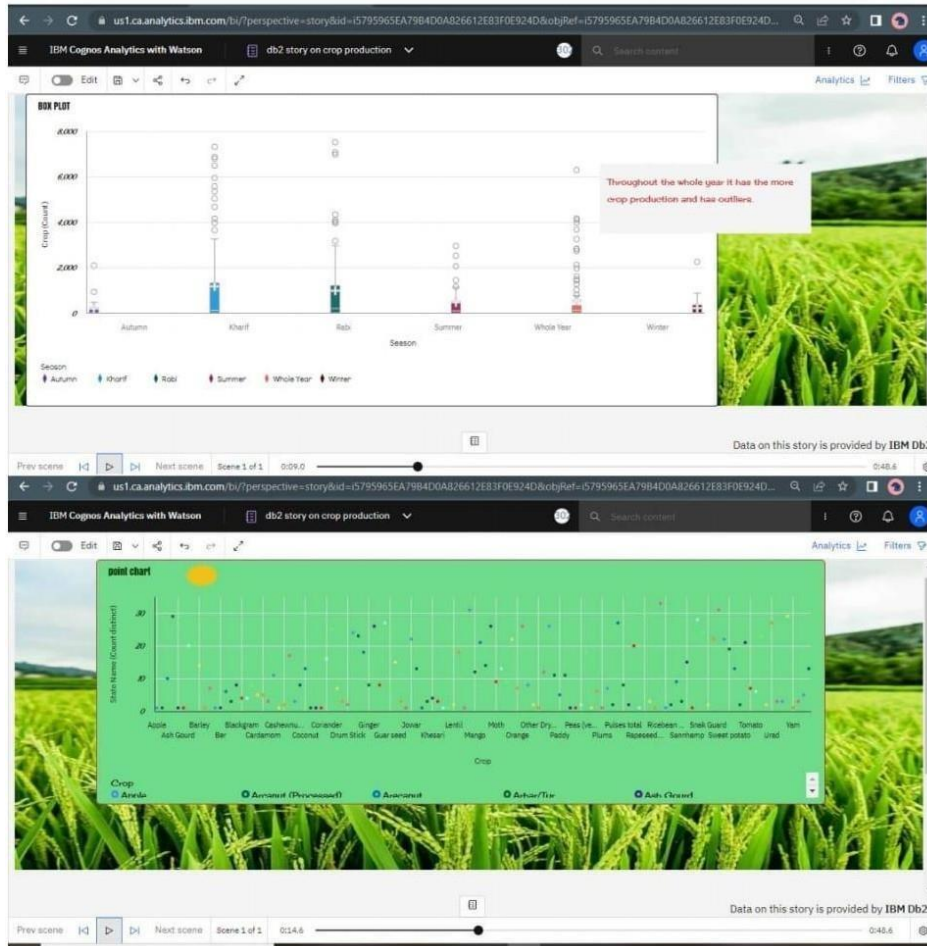| S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visulizations / Graphs – 4 / 16 "https://us3.ca.analytics.ibm.com/bi/?perspective=dashboard&pat hRef=.public_folders%2FDATA%2BMODULE%2BDb2%2FDashboard%2B using%2BIBM%2BDb2&closeWindowOnLastView=true&ui_ap pbar=false&ui_navbar=false&shareMode=embedded&a ction=view&mode=dashboard&subView=model0000018462c 23cbc_00000000" width="320" height="200" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe>
2.	Data Responsiveness	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 Dashbord,Report,Story,Visualization andExploratory data analytics(EDA)
4.	Utilization of Data Filters	Utilization of data filters - 25

5.	Effective User Story	No of Scene Added – 12

<iframe src="https://us1.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2Fdb2%2Bstory%2Bon%2Bcrop%2Bproduction&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=view&sceneId=model0000018452cdd762_00000000&sceneTime=0" width="320" height="200" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe> |
| 6. | Descriptive Reports | No of Visulizations / Graphs – 1 / 6

<iframe src="https://us3.ca.analytics.ibm.com/bi/?pathRef=.my_folders%2FREPORT%2FPROJECT%2BREPORT%2BUSING%2BIBM%2Bdb2..&closeWindowOnLastView=true&ui_appbar=false&ui_navbar=false&shareMode=embedded&action=run&format=HTML&prompt=false" width="320" height="200" frameborder="0" gesture="media" allow="encrypted-media" allowfullscreen=""></iframe> |
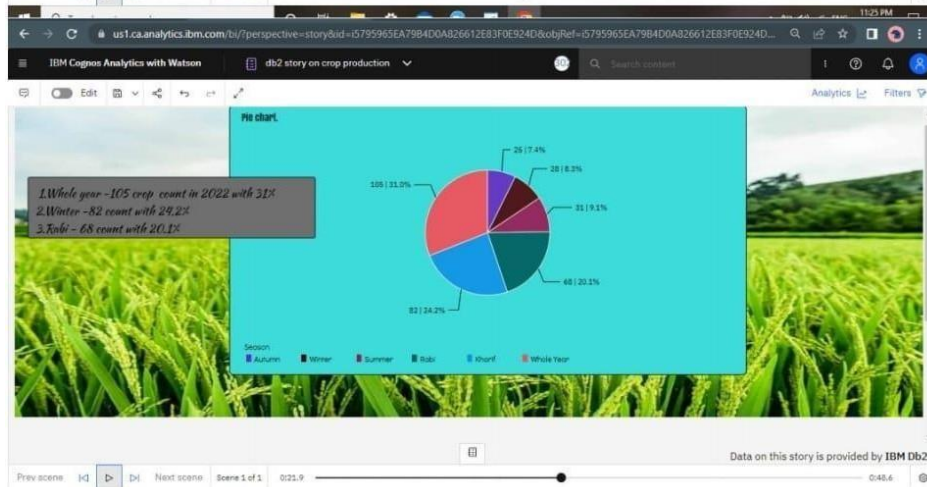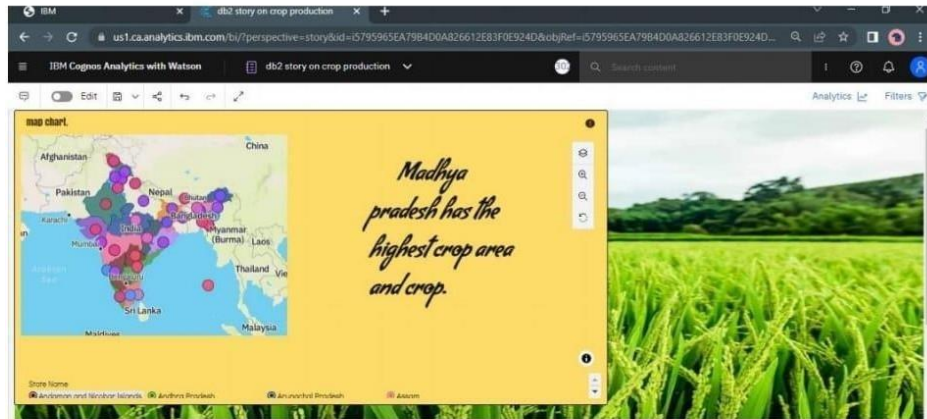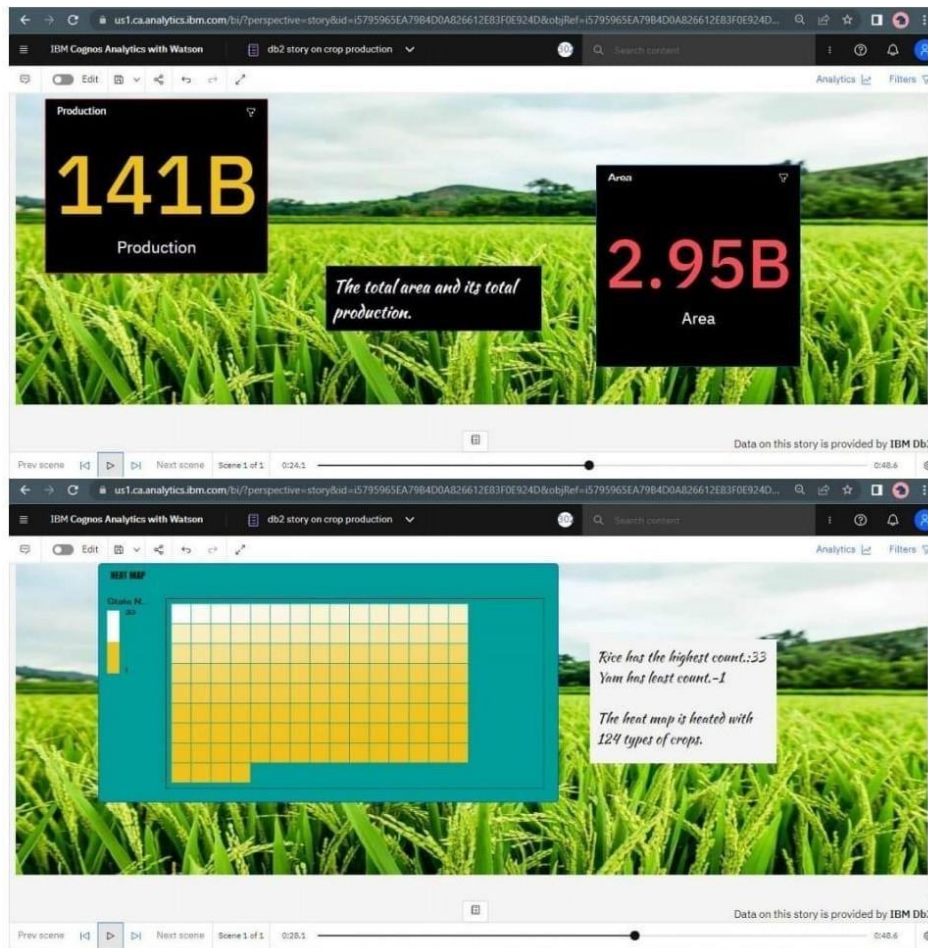
REPORT:

STORY:

Throughout the whole year it has the more crop production and has outliers.

Data on this story is provided by **IBM Db2.**

Data on this story is provided by **IBM Db2.**

map chart.

Madhya pradesh has the highest crop area and crop.

Store Name
- Andaman and Nicobar Islands
- Andhra Pradesh
- Arunachal Pradesh
- Assam

Data on this story is provided by **IBM Db2.**

Prev scene | Next scene | Scene 1 of 1 | 0:18.6 — 0:48.6

Pie chart.

1.Whole year –105 crop count in 2022 with 31%
2.Winter –82 count with 24.2%
3.Rabi – 68 count with 20.1%

- 26 | 7.4%
- 28 | 8.3%
- 31 | 9.1%
- 68 | 20.1%
- 82 | 24.2%
- 105 | 31.0%

Season
- Autumn
- Winter
- Summer
- Rabi
- Kharif
- Whole Year

Data on this story is provided by **IBM Db2.**

Prev scene | Next scene | Scene 1 of 1 | 0:21.9 — 0:48.6

IBM Cognos Analytics with Watson

db2 story on crop production

Analytics Filters

Production

141B

Production

The total area and its total production.

Area

2.95B

Area

Data on this story is provided by **IBM Db2.**

Prev scene   Next scene   Scene 1 of 1   0:24.1   0:40.6

IBM Cognos Analytics with Watson

db2 story on crop production

Analytics Filters

HEAT MAP

State N...

Rice has the highest count.:33
Yam has least count.-1

The heat map is heated with
124 types of crops.

Data on this story is provided by **IBM Db2.**

Prev scene   Next scene   Scene 1 of 1   0:28.1   0:40.6

Thus the story has some visualizations to the crop yield analysis to its parameter it depends.

Thank you.

Data on this story is provided by **IBM Db2.**

DASHBOARD:

Season by Area

Area
- 669,400 ● 670,935 ● 672,100 ● 686,900 ● 687,000 ● 687,500 ● 694,865
- 699,894 ● 699,900 ● 708,708 ● 709,268 ● 711,145 ● 711,300 ● 712,900
- 725,400 ● 726,300 ● 732,262 ● 733,960 ● 754,700 ● 755,200 ● 758,700

Area by State Name

State Name
- Andhra Pradesh ● Arunachal Pradesh ● Madhya Pradesh ● Maharashtra ● Manipur
- Meghalaya ● Mizoram

Crop Year compared to Production

4 ↓

Crop Year

28.4B (-100%)

Production

Area by District Name

District Name
- ADILABAD ● AGAR MALWA ● AGRA ● AHMADABAD ● KINNAUR ● KIPHIRE
- KISHANGANJ

Data on this dashboard is provided by **IBM Db2.**

State Name for State Name regions

State Name
- Andaman and Nicobar Islands ● Arunachal Pradesh ● Assam
- Bihar ● Chandigarh ● Himachal Pradesh
- Jammu and Kashmir ● Jharkhand ● Karnataka

© Mapbox © OpenStreetMap **Improve this map**

Area for Season

Area	Rabi	Whole Year	Summary
2,203,300	2,203,300	(no value)	2,203,300
2,877,900	(no value)	2,877,900	2,877,900
2,901,300	2,901,300	(no value)	2,901,300
3,179,900	3,179,900	(no value)	3,179,900
3,304,700	3,304,700	(no value)	3,304,700
3,893,900	3,893,900	(no value)	3,893,900
3,989,200	3,989,200	(no value)	3,989,200

Production by Crop Year

Crop Year
- 2015 ● 1997 ● 1998 ● 2010 ● 1999 ● 2007 ● 2000 ● 2001 ● 2009 ● 2002 ● 2003
- 2005 ● 2012 ● 2004 ● 2013 ● 2011

Production for Crop Year

Column values
- Increase ● Decrease ● Sum

Crop Year

Data on this dashboard is provided by **IBM Db2.**