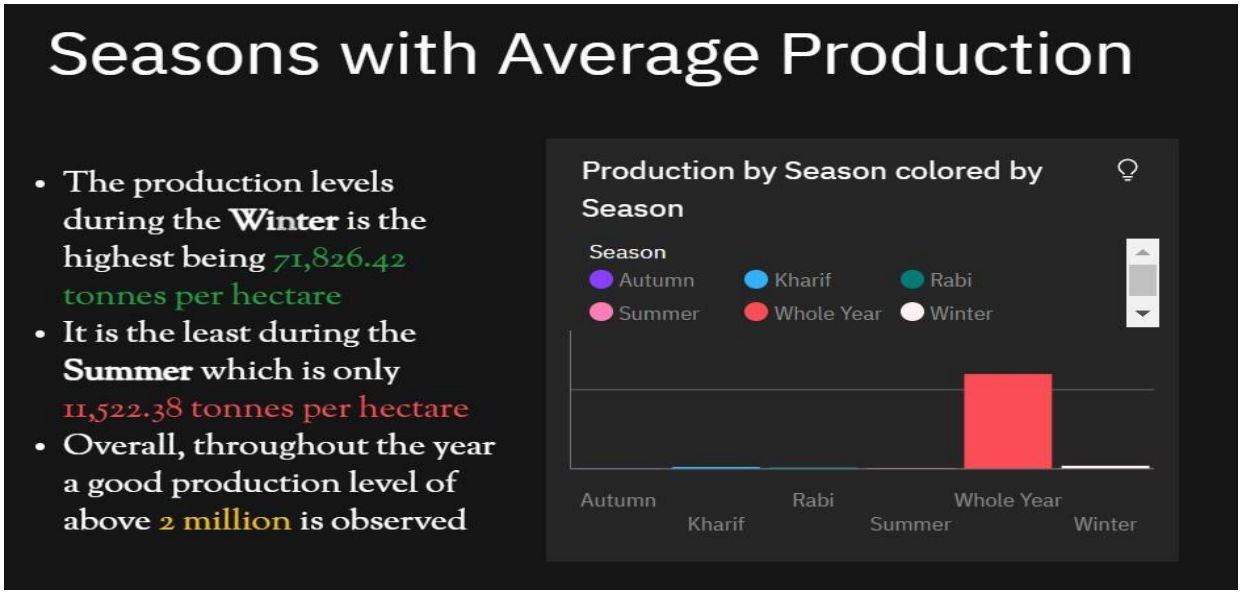
Project Development Phase

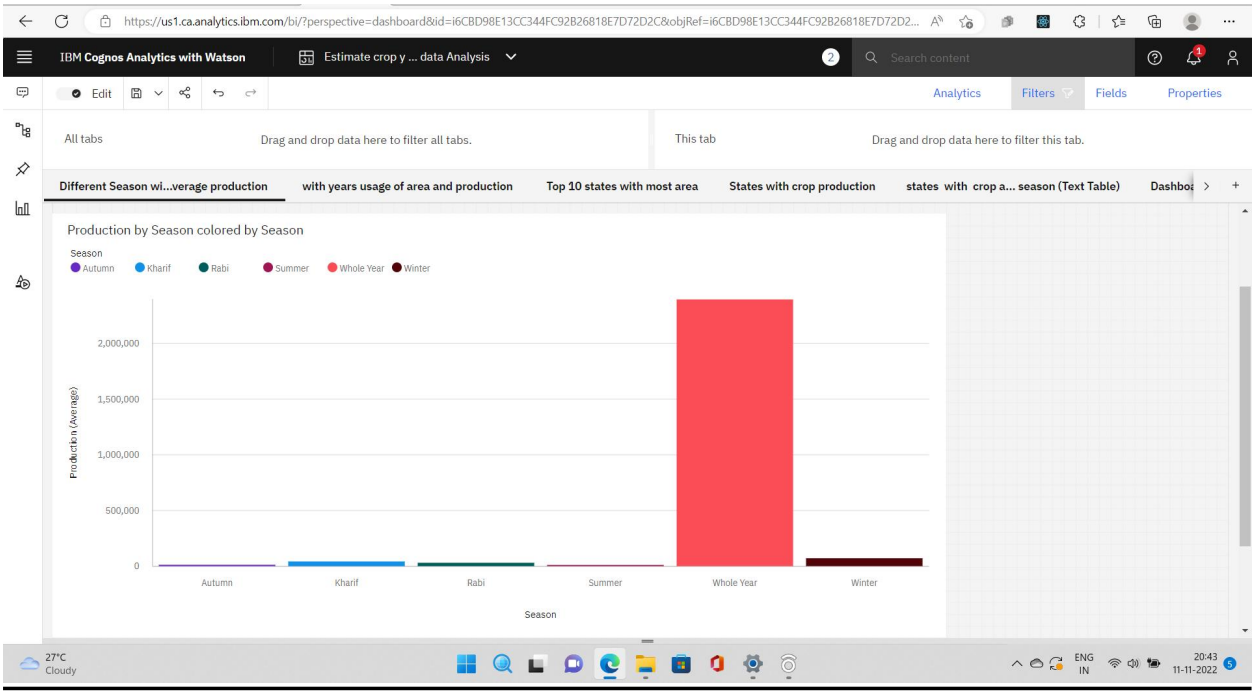
SPRINT-4

Date	17 November 2022
Team ID	PNT2022TMID28405
Project Name	Estimation of crop yield analysis using data Analytics.

Storylink:

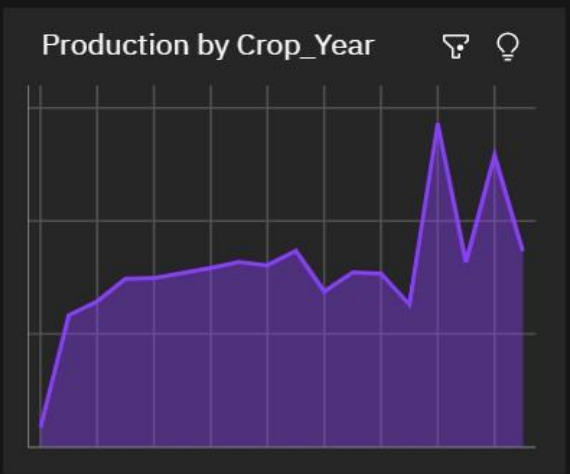
https://us1.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2Fdb2%2Bstory%2Bon%2Bcrop%2Bproduction&action=view&sceneId=model0000018452cdd762_00000000&sceneTime=700





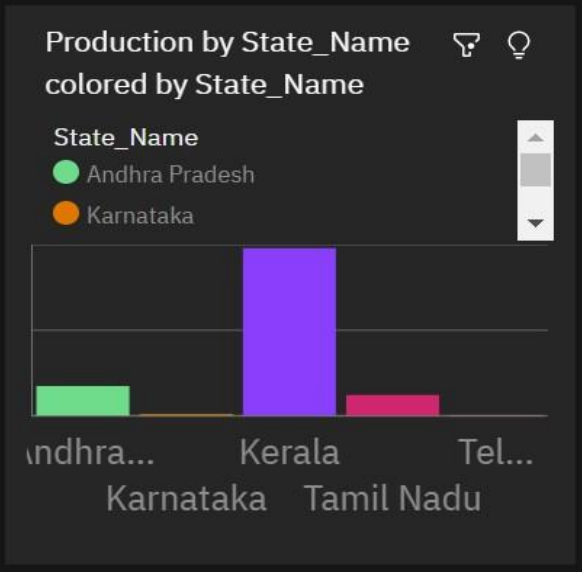
Production by Crop_Year

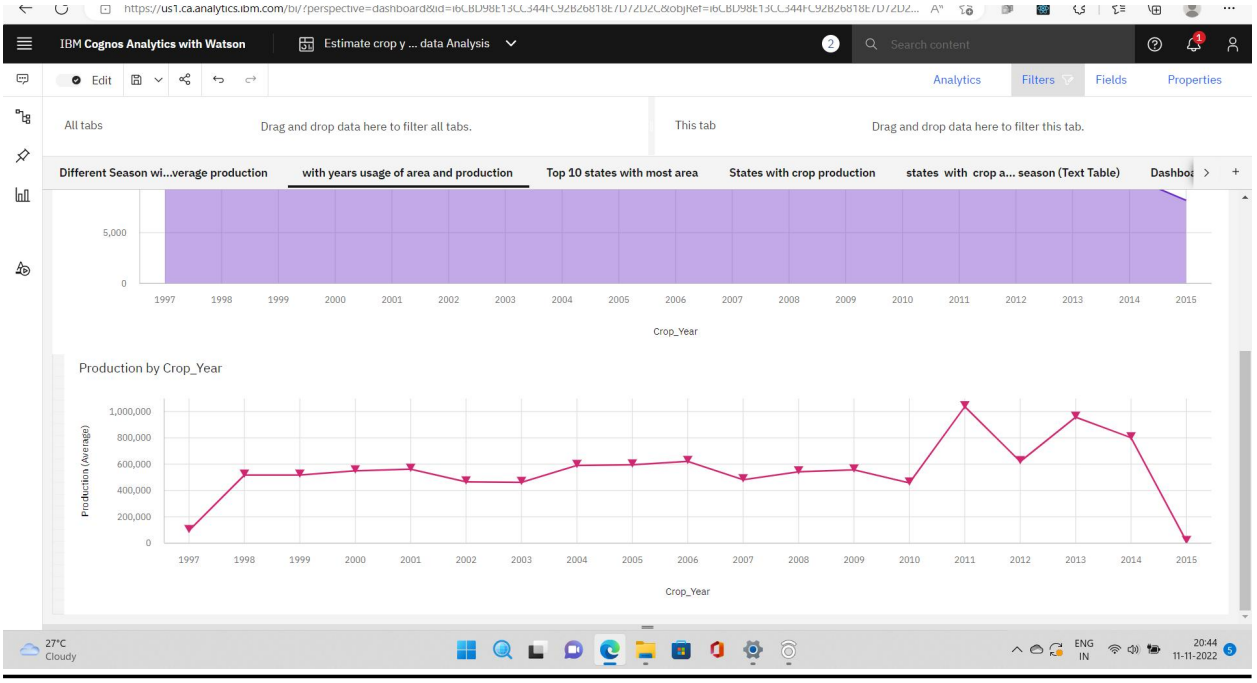
- In 1997, the production was very less having a value of only around 800 million tonnes per hectare
- From 1998 to 2010, there is a stable average production level of 6 to 7 billion tonnes per hectare
- During the years 2011 and 2013, there has been a considerable spike in the production of 14



Southern Zone Production

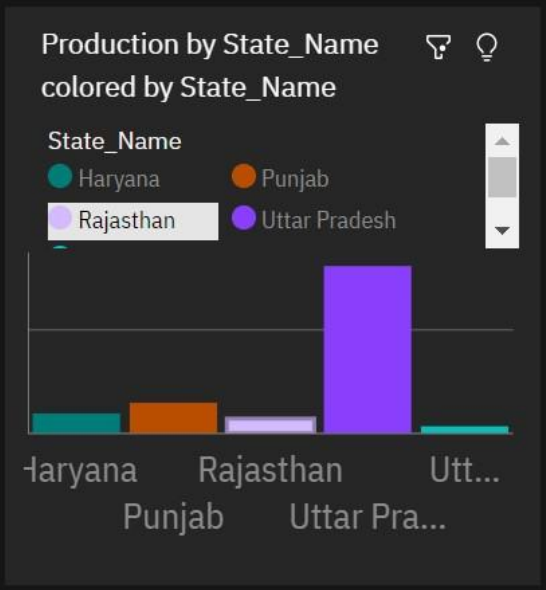
- In the south, Kerala has the highest production level of over 97 billion tonnes/hectare
- Telangana and Karnataka show the lowest production levels.

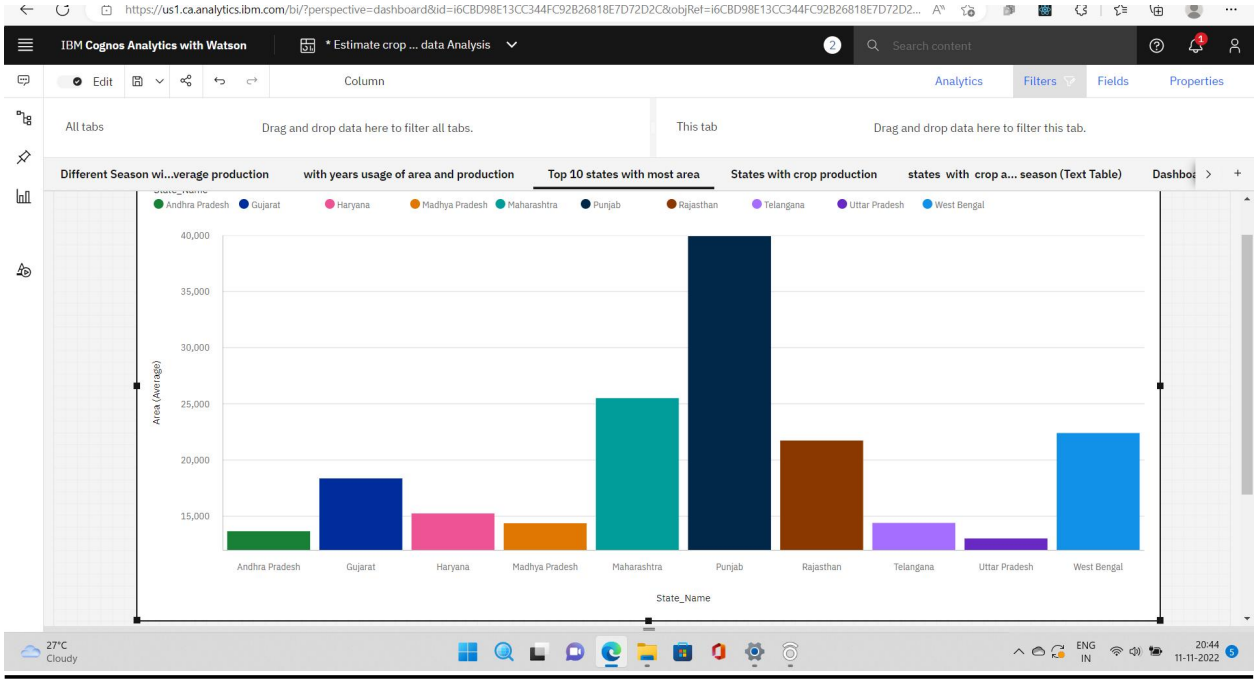




Northern zone Production

- This shows the crop production in the North
- **Uttar Pradesh** shows the maximum production level of over 3 billion tonnes/hectare
- **Uttarakhand**, however has the least which is only around 132 million tonnes/hectare




IBM Cognos Analytics with Watson
* Estimate crop ... data Analysis
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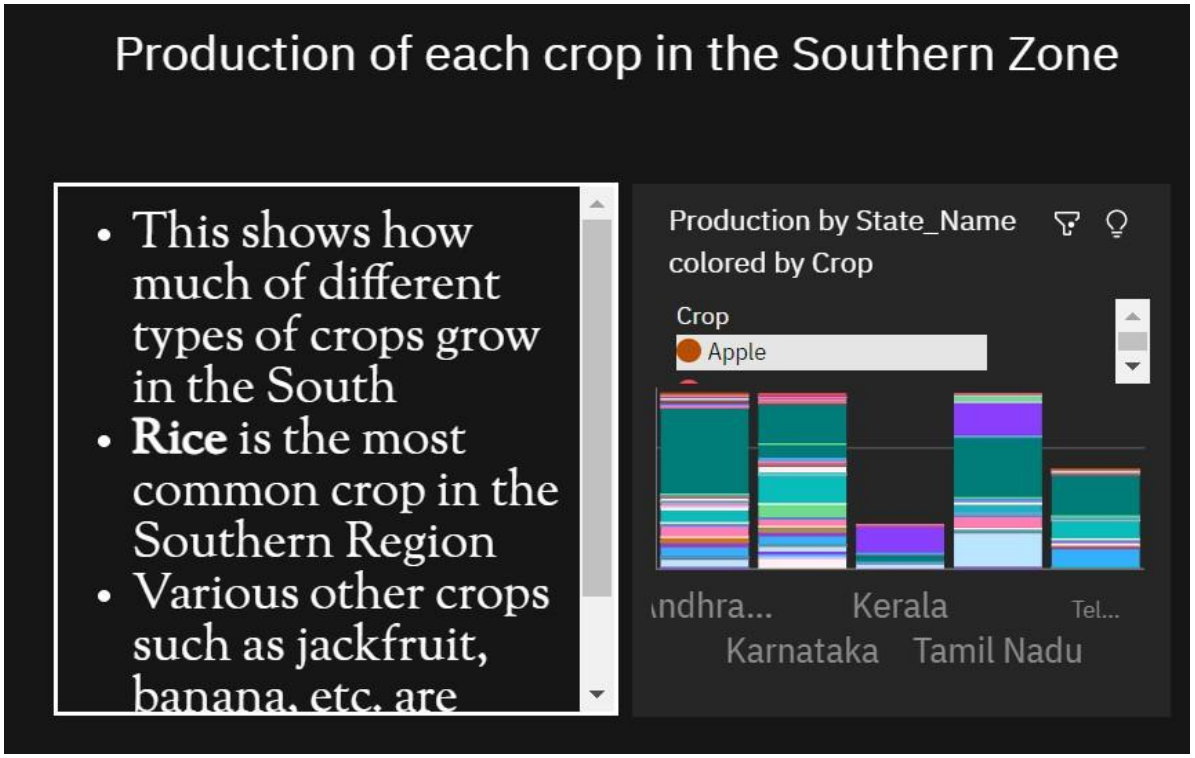
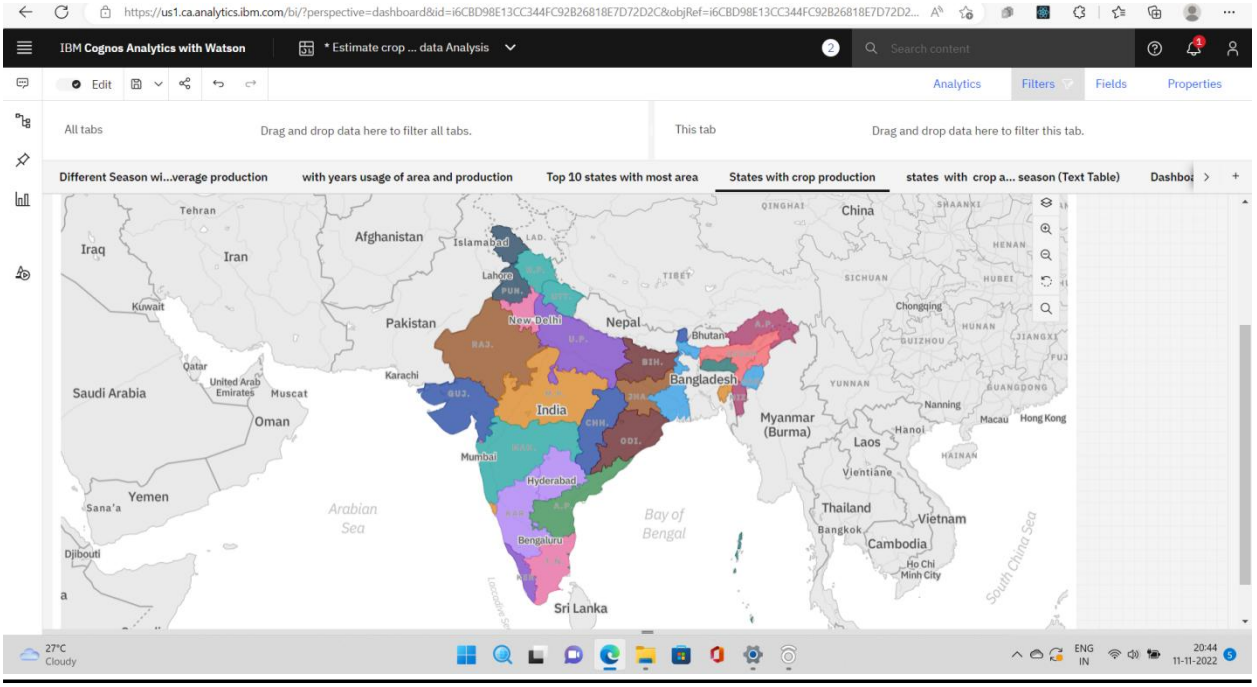
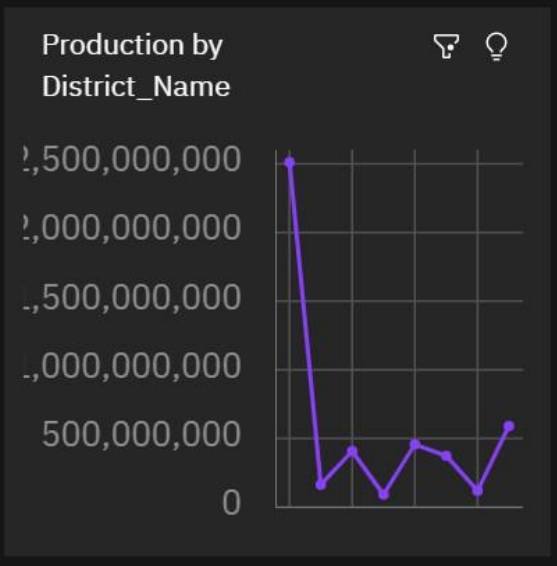
Different Season wi...verage production
with years usage of area and production
Top 10 states with most area
States with crop production
states with crop a... season (Text Table)
Andhra Pradesh
Gujarat
Haryana
Madhya Pradesh
Maharashtra
Punjab
Rajasthan
Telangana
Uttar Pradesh
West Bengal
40,000
35,000
30,000
25,000
20,000
15,000
Area (Average)
State_Name
27°C
Cloudy
ENG
IN
20:44
11-11-2022

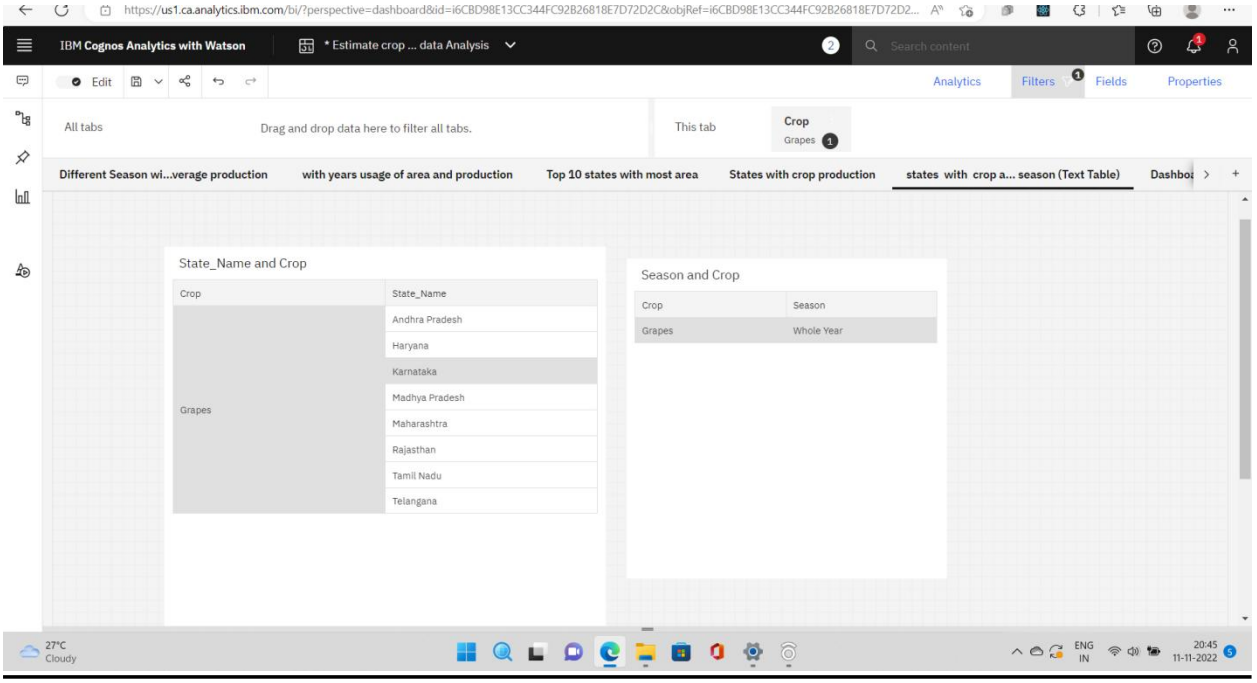

Production of each crop in the Southern Zone
This shows how much of different types of crops grow in the South
Rice is the most common crop in the Southern Region
Various other crops such as jackfruit, banana, etc. are
Production by State_Name
colored by Crop
Crop
Apple
ndhra...
Kerala
Tel...
Karnataka
Tamil Nadu



Production in each Tamil Nadu Districts

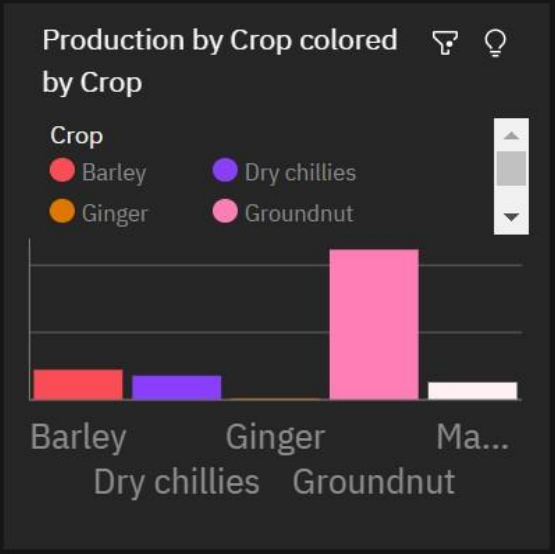
- This chart talks about Production in various districts of Tamil Nadu alone.
- **Coimbatore** has the maximum production level of over 2 billion tonnes/hectare
- The rest of the districts are more or less stable in terms of production, **Kanchipuram** having the least

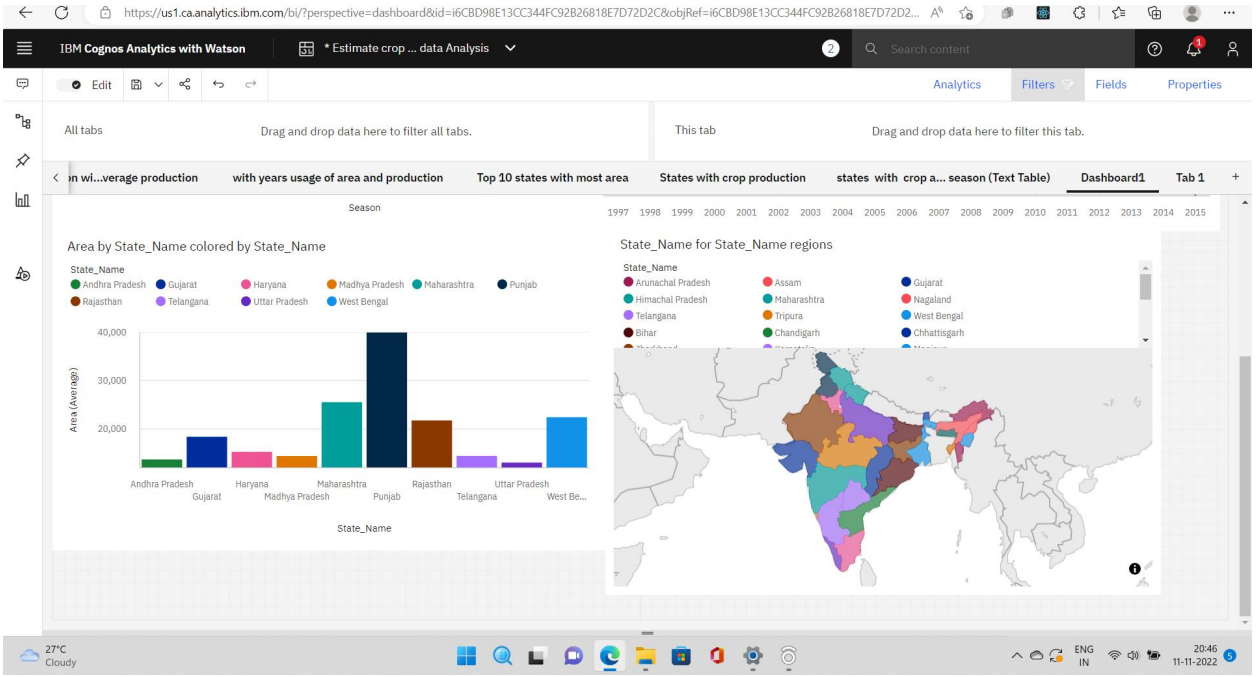




Production vs Crop

- Here we see the production of different crops across India
- **Groundnut** is grown the most having a production level of over 111 million tonnes/hectare
- **Ginger** on the other hand , has only about 821,000 tonnes/hectare




IBM Cognos Analytics with Watson
* Estimate crop ... data Analysis
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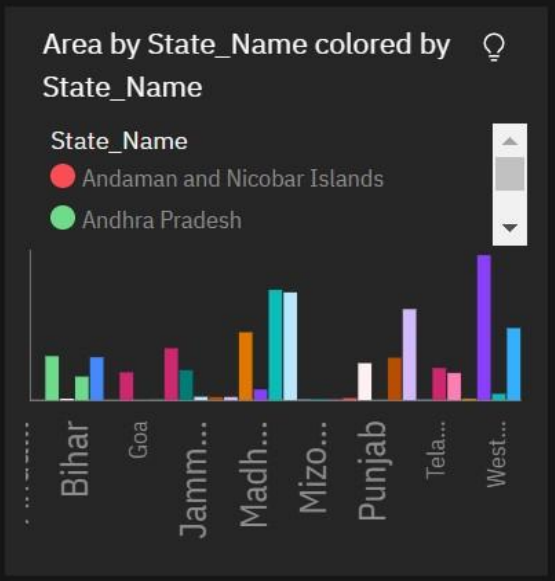
Drag and drop data here to filter this tab.
with years usage of area and production
Top 10 states with most area
States with crop production
states with crop a... season (Text Table)
Dashboard1
Tab 1
Season
1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015
Area by State_Name colored by State_Name
State_Name
Andhra Pradesh
Gujarat
Haryana
Madhya Pradesh
Maharashtra
Punjab
Rajasthan
Telangana
Uttar Pradesh
West Bengal
40,000
30,000
20,000
Area (Average)
Andhra Pradesh
Gujarat
Haryana
Madhya Pradesh
Maharashtra
Punjab
Rajasthan
Telangana
Uttar Pradesh
West Be...
State_Name
State_Name for State_Name regions
State_Name
Arunachal Pradesh
Assam
Gujarat
Himachal Pradesh
Maharashtra
Nagaland
Telangana
Tripura
West Bengal
Bihar
Chandigarh
Chhattisgarh
27°C
Cloudy
ENG
IN
20:46
11-11-2022

Area vs State

- This shows us the crop area covered by various states
- **Uttar Pradesh** stand first with a crop area of 433 million sq. hectare
- Few other States that hold large areas include **Madhya Pradesh, Maharashtra and Rajasthan**



Area and Production in certain Districts

- This graph is about the crop production and area covered by various districts of India.
- Here, **Anantapur** in Andhra Pradesh holds the largest crop area of 18 million hectares and produces 81 million tonnes/hectare of crop
- **Deoghar in Jharkhand,** has covers the least area (360,000 hectares) and production (480.00 tonnes/hectare)