

Project Development Phase

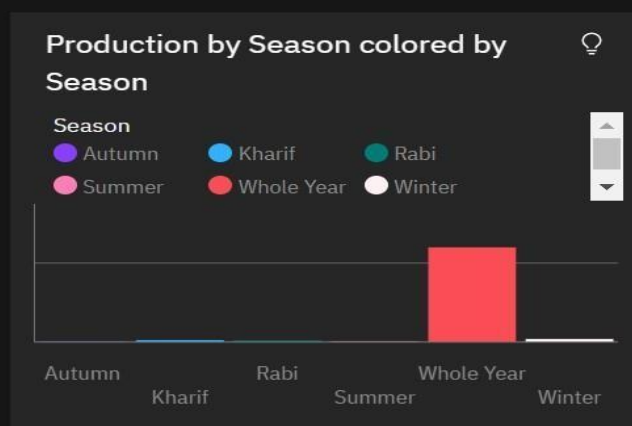
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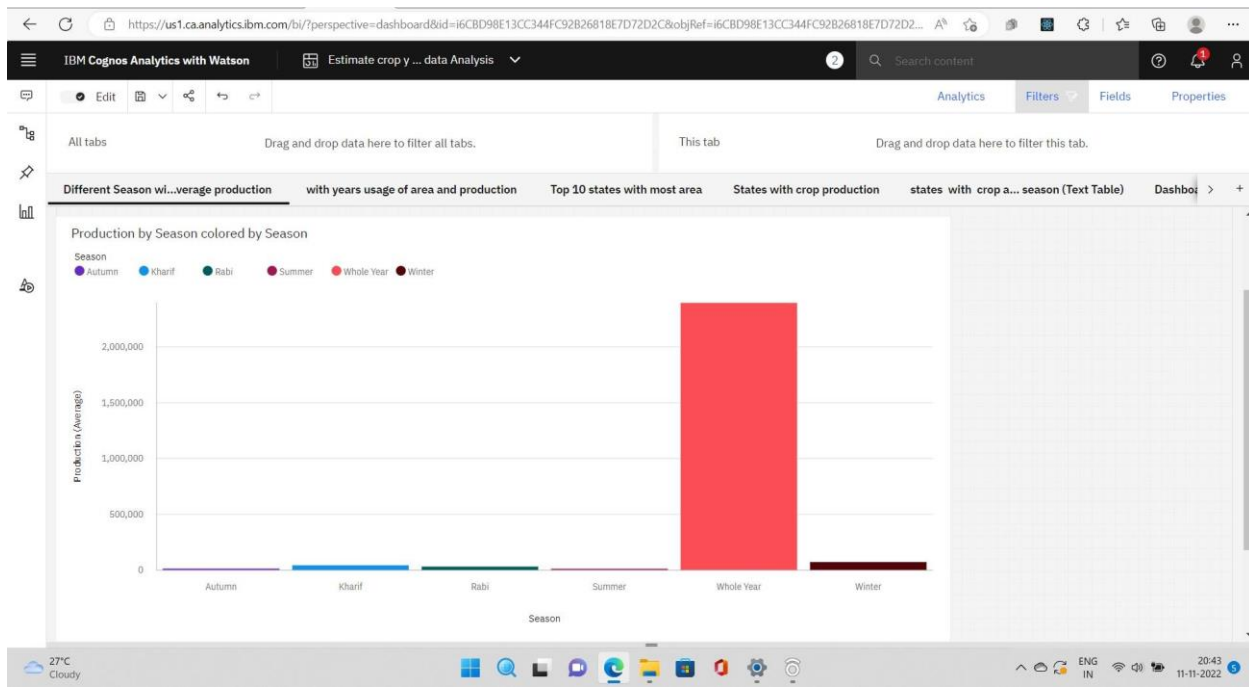
Date	17 November 2022
Team ID	PNT2022TMID12962
Project Name	Estimation of crop yield analysis using data Analytics.

ESTIMATE THE CROP YIELD USING DATA ANALYTICS

Seasons with Average Production

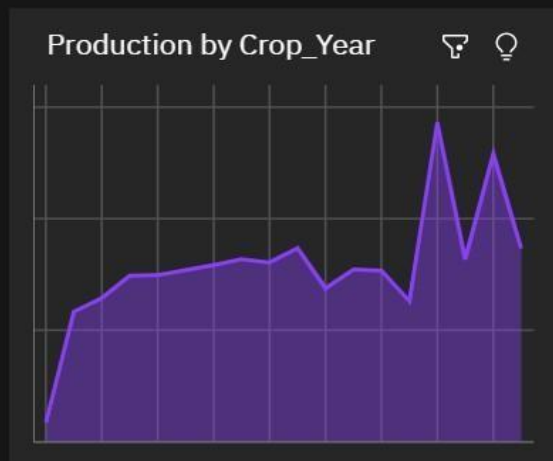
- The production levels during the **Winter** is the highest being **71,826.42 tonnes per hectare**
- It is the least during the **Summer** which is only **11,522.38 tonnes per hectare**
- Overall, throughout the year a good production level of above **2 million** is observed





Production by Crop_Year

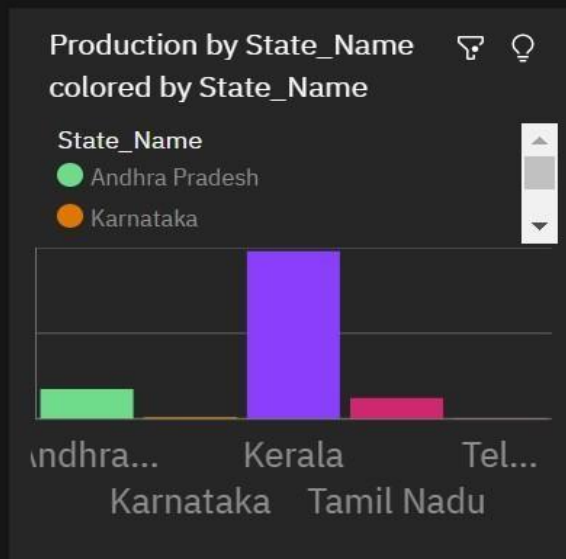
- In **1997**, the production was very less having a value of only around **800 million tonnes per hectare**
- From **1998 to 2010**, there is a stable average production level of **6 to 7 billion tonnes per hectare**
- During the years **2011 and 2013**, there has been a considerable spike in the production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

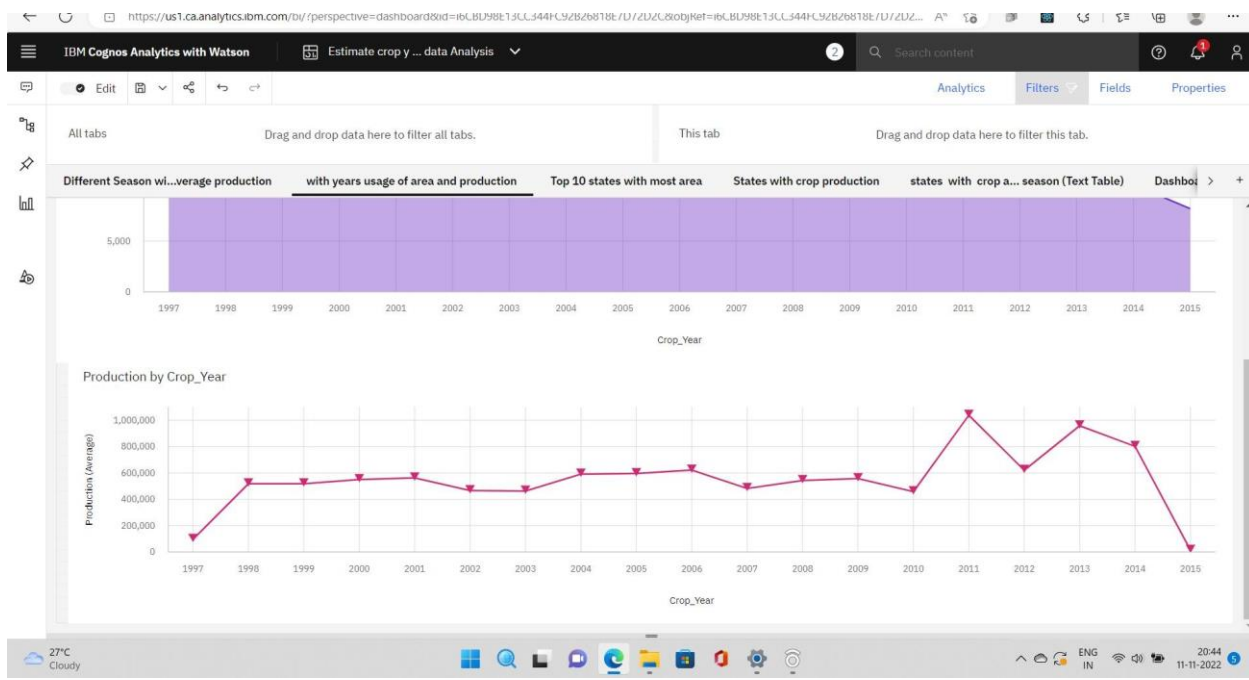




Southern Zone Production

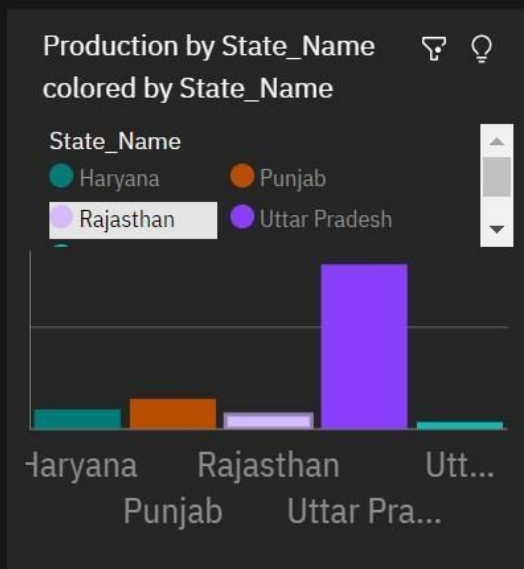
- In the south, Kerala has the highest production level of over **97 billion tonnes/hectare**
- Telangana and Karnataka show the **lowest production levels**.

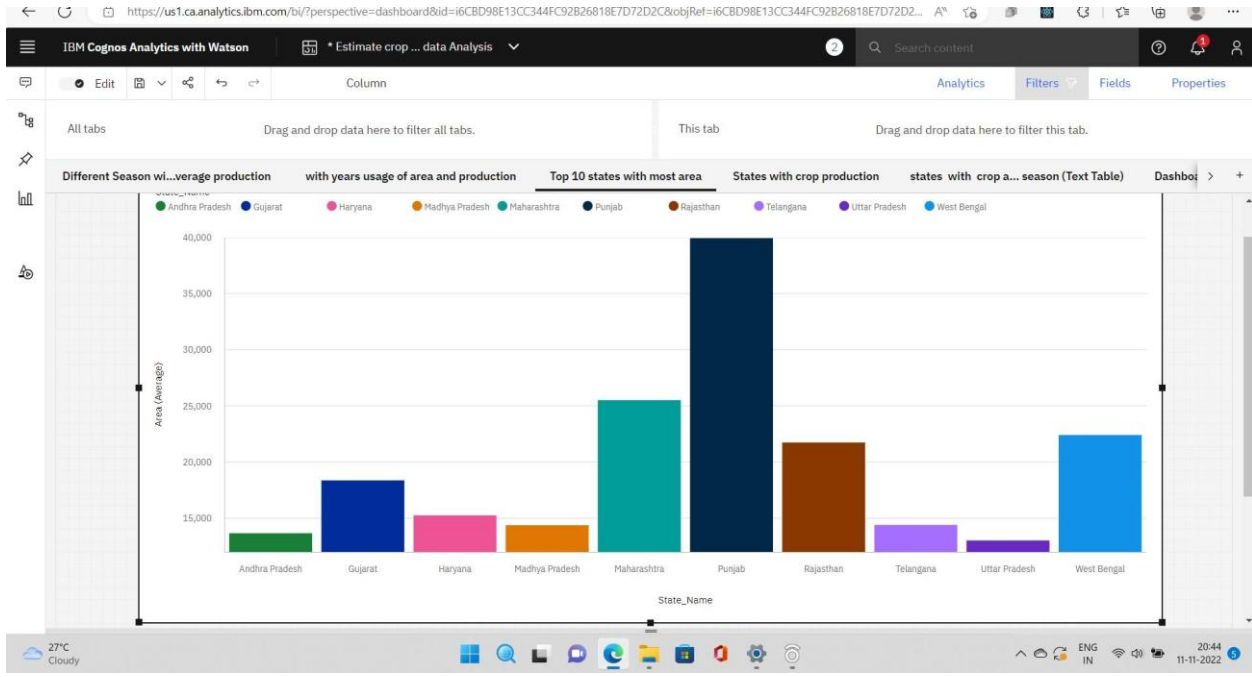




Northern zone Production

- 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





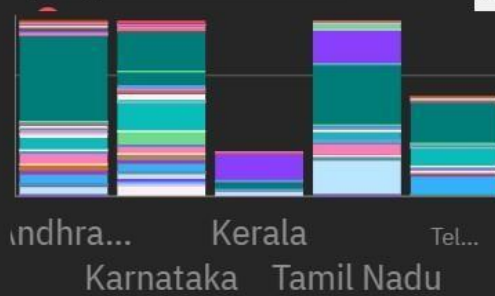
Production of each crop in the Southern Zone

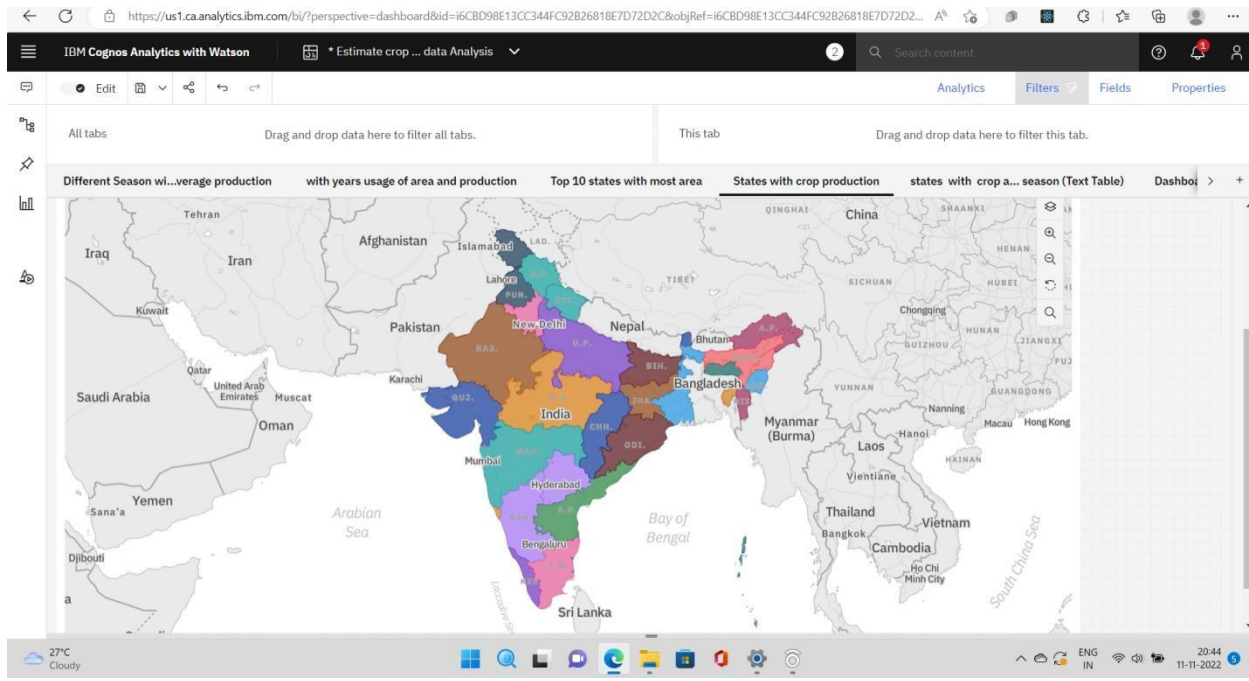
- This shows how much of different types of crops grow in the South
- **Rice** is the most common crop in the Southern Region
- Various other crops such as jackfruit, banana, etc. are

Production by State_Name colored by Crop

Crop

Apple

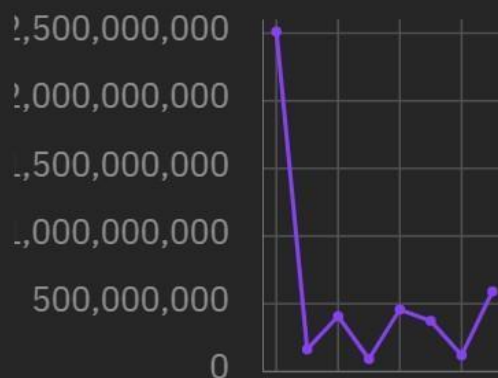


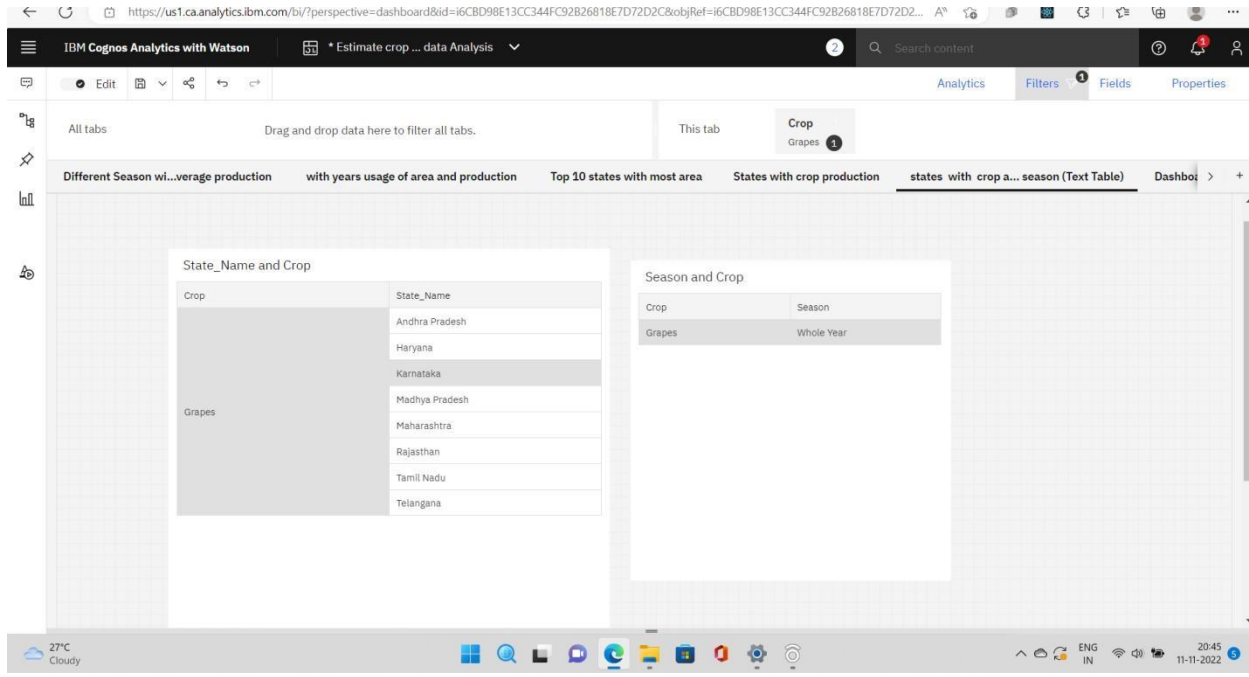


Production in each Tamil Nadu Districts

- 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

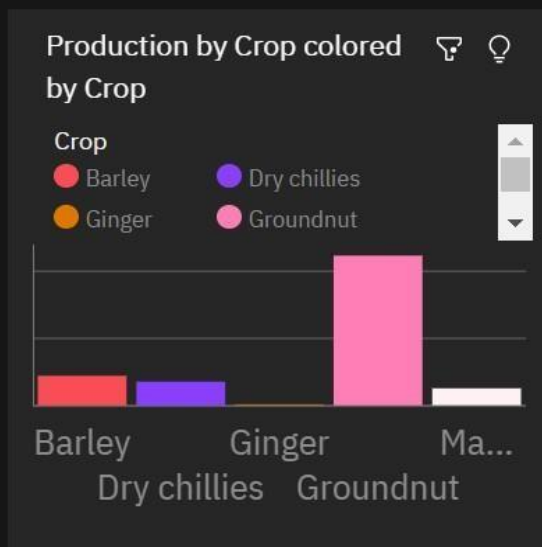
Production by District_Name

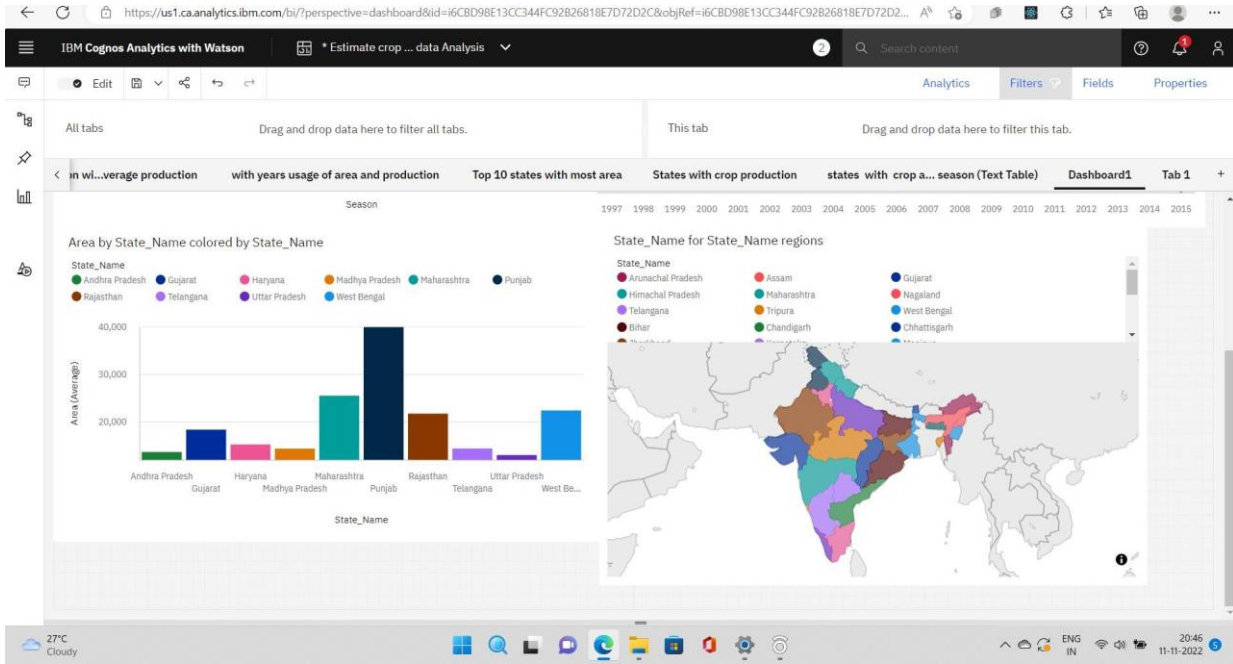




Production vs Crop

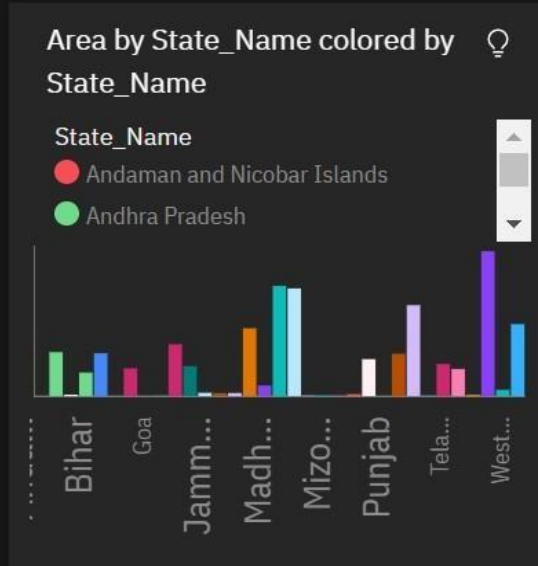
- Here we see the production of different crops across India
- **Groundnut** is grown the most having a production level of over **111 million tonnes/hectare**
- **Ginger** on the other hand, has only about **821,000 tonnes/hectare**





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**)

