

## Project Development Phase

### SPRINT-4

Team ID	PNT2022TMID52976
Project Name	Project – Estimate the Crop Yield using Data Analytics

#### Creation of Story

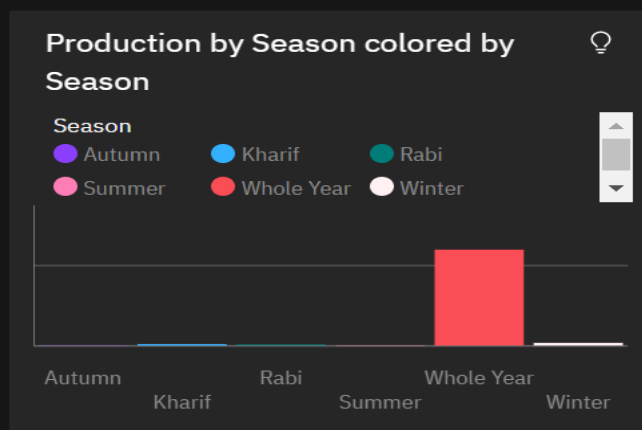
##### Story Link:

[https://us1.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my\\_folders%2FCROP%2BPRODUCTION%2BIBM%2BPROJECT%2FStory%2FSTORY\\_CROP%2BYIELD&action=view&sceneId=model0000018485dcec7a\\_00000000&sceneTime=5000](https://us1.ca.analytics.ibm.com/bi/?perspective=story&pathRef=.my_folders%2FCROP%2BPRODUCTION%2BIBM%2BPROJECT%2FStory%2FSTORY_CROP%2BYIELD&action=view&sceneId=model0000018485dcec7a_00000000&sceneTime=5000)

## ESTIMATE THE CROP YIELD USING DATA ANALYTICS

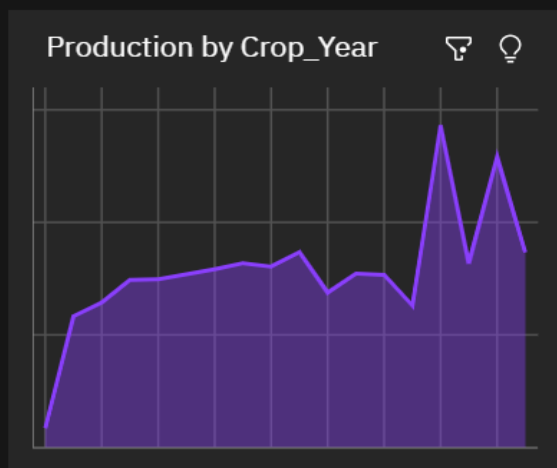
### Seasons with Average Production

- 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



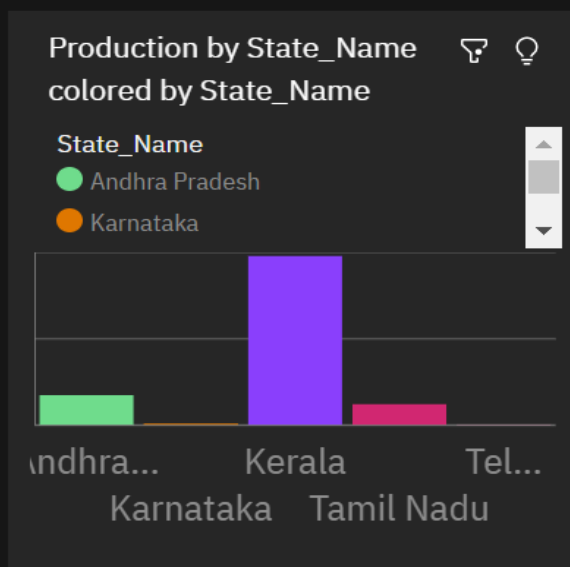
# Production by Crop\_Year

- 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



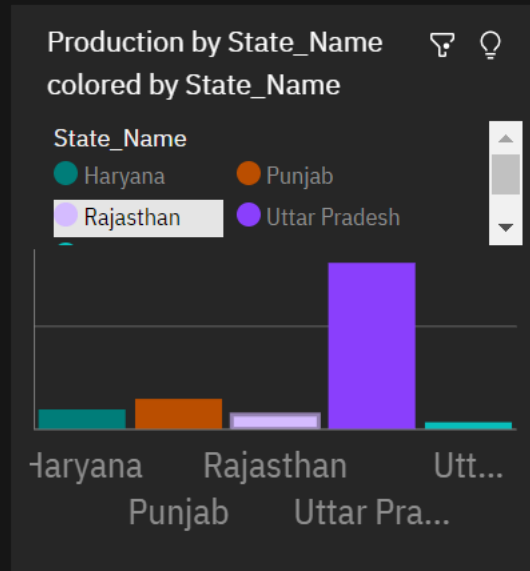
# Southern Zone Production

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



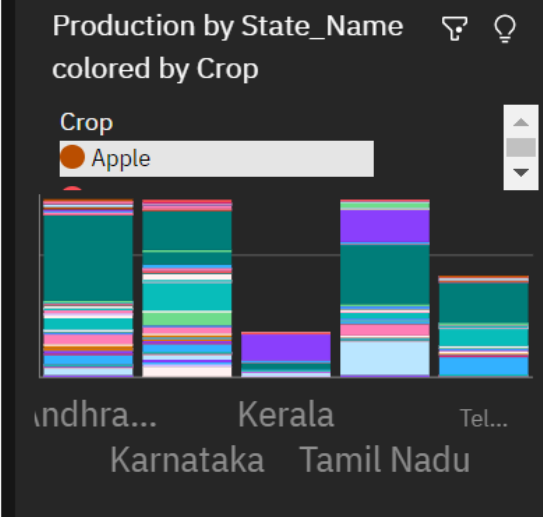
# Northern zone Production

- 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



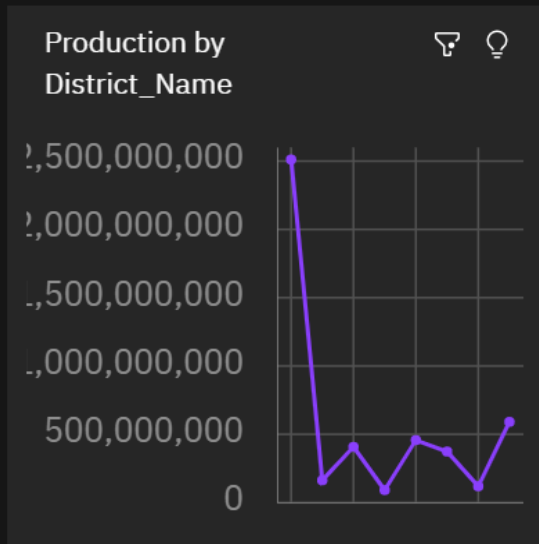
## Production of each crop in the Southern Zone

- 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



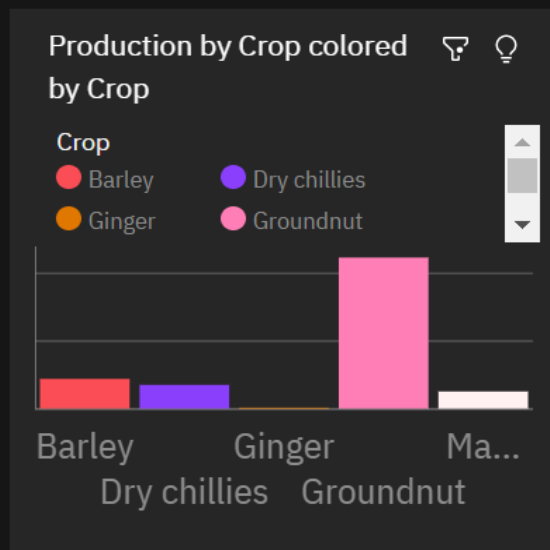
# Production in each Tamil Nadu Districts

- 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



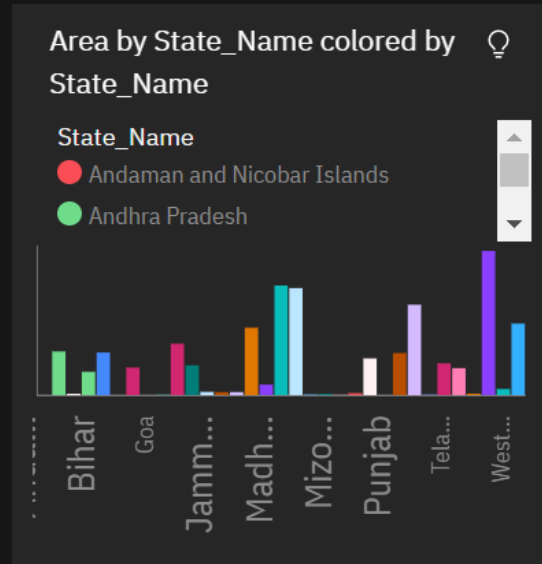
# Production vs Crop

- 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**



# 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**)

