

SPRINT 2

TEAM ID: PNT2022TMID45976

WORK DONE: Dashboard with useful insights for further work with respect to predictive analysis for CROP PREDICTION

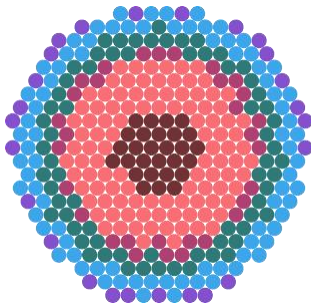
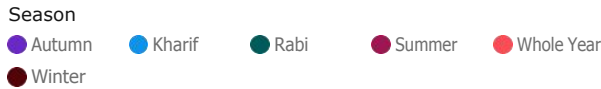
Tool used: Cognos analytics by IBM

Insights:

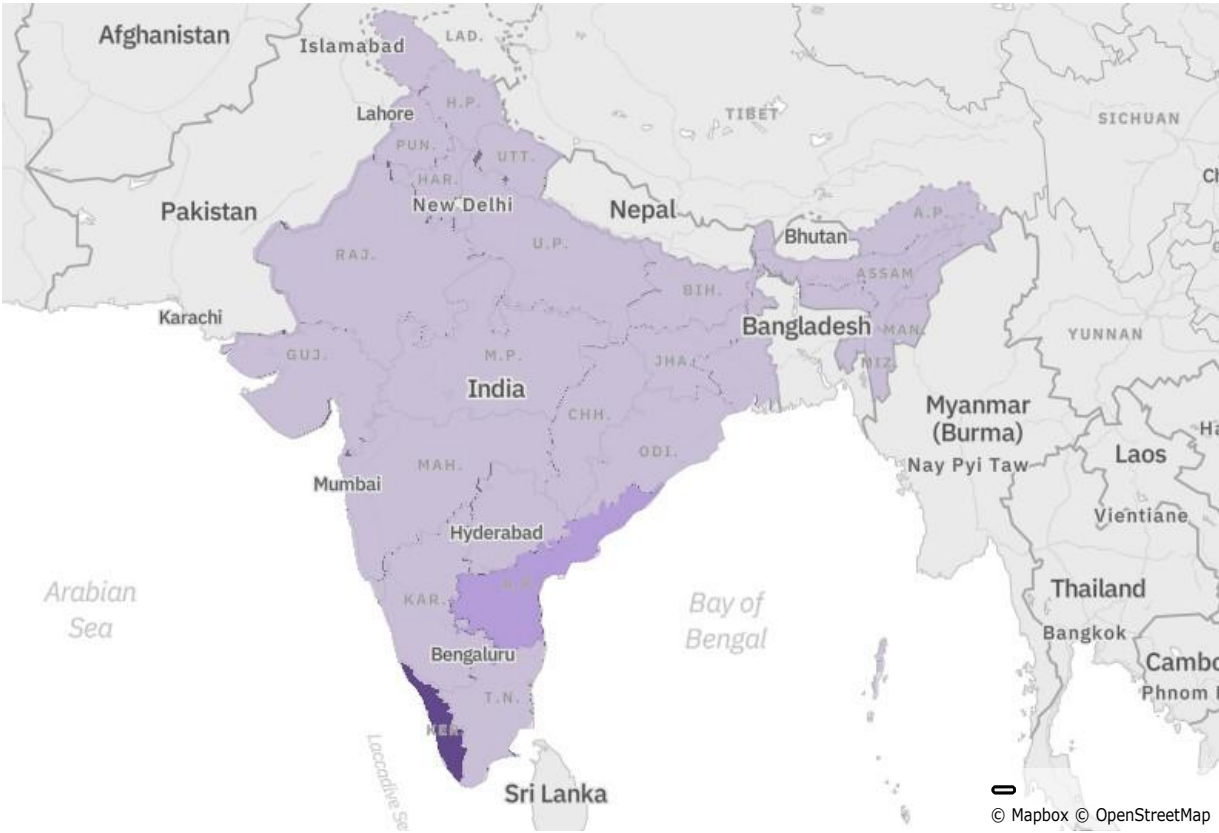
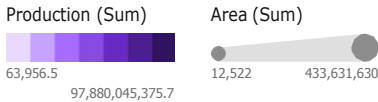
- For Total production area, most significant values of Season are **Kharif and Rabi**, whose respective Area values add up to almost 2.0 billion, or 84.3 % of the total. Area is unusually high when Season is Kharif.
- For Area, the most significant value of State_Name is **Uttar Pradesh**, whose respective Area values add up to almost 434 million, or 18.7 % of the total.
- Area is unusually high when the combinations of Season and State_Name are **Rabi and Uttar Pradesh, Kharif and Maharashtra, Kharif and Uttar Pradesh and Kharif and Madhya Pradesh**. Area is unusually high when State_Name is **Uttar Pradesh**.
- Area ranges from almost **13000**, when State_Name is Chandigarh, to nearly **434 million**, when State_Name is **Uttar Pradesh**.
- Production ranges from over **64 million**, when Season is **Autumn**, to approximately **134 billion**, when Season is **Whole Year**.
- For Area, the most significant values of Season are **Kharif and Rabi**, whose respective Area values add up to **nearly 2.4 billion**, or 79.7 % of the total. Area ranges from **over 48 million**, when Season is **Autumn**, to over **1.4 billion**, when Season is **Kharif**. Area is unusually high when Season is **Kharif**.
- Production ranges from nearly 64 thousand, when **State_Name is Chandigarh**, to approximately 98 billion, when **State_Name is Kerala**. Production is unusually high when **State_Name is Kerala, Andhra Pradesh and Tamil Nadu**.
- For Production, the most significant values of Crop_Year are **2011 and 2013**, whose respective Production values add up to **approximately 27 billion**, or 19.3 % of the total. Production ranges from over 6.9 million, when Crop_Year is 2015, to approximately 14 billion, when Crop_Year is 2011. Production is most unusual when Crop_Year is **2015, 2011 and 1997**.
- For Production, the most significant values of District_Name are **KOZHICODE and MALAPPURAM**, whose respective Production values add up to approximately 30 billion, or 21.1 % of the total. Production ranges from 2, when District_Name is **MUMBAI**, to approximately 15 billion, when District_Name is **KOZHICODE**. Production is unusually high when District_Name is **KOZHICODE and MALAPPURAM**.
- For Production, the most significant value of State_Name is **Kerala**, whose respective Production values add up to approximately 98 billion, or 69.3 % of the total. Production is unusually high when State_Name is **Kerala, Andhra Pradesh and Tamil Nadu**. Production is unusually high when the combinations of State_Name and Crop_Year are **Kerala and 2005, Tamil Nadu and 2011, Kerala and 2006, Kerala and 2004, Kerala and 2014 and more**.
- For Production, the most significant value of State_Name is **Uttar Pradesh**, whose respective Production values add up to over 2.2 billion, or 39.8 % of the total.
- Production is unusually high when State_Name is **Uttar Pradesh**. Production is unusually high when the combination of Crop and State_Name is **Sugarcane and Uttar Pradesh**.
- Regarding Rice production For Area of production, the most significant values of State_Name are **Uttar Pradesh, West Bengal, and Odisha**, whose respective Area values add up to almost 292 million, or 39 % of the total. For Area, the most significant value of Season is Kharif, whose respective Area values add up to over 420 million, or 56.2 % of the total. Area is unusually high when Season is Kharif. Area is unusually high when State_Name is **Uttar Pradesh, West Bengal and Odisha**.
- With respect to sugarcane Production ranges from nearly 64 thousand, when State Name is **Chandigarh**, to approximately 98 billion, when State Name is **Kerala**. Production is unusually high when State Name is **Kerala, Andhra Pradesh and Tamil Nadu**. Sugarcane production is directly proportional to area
- **Coconut production:** Coconut production is **directly proportional to area**. It's production is also gradually increasing over a time of period and its production is high in Kerala. It does not depends on season

Tab 1

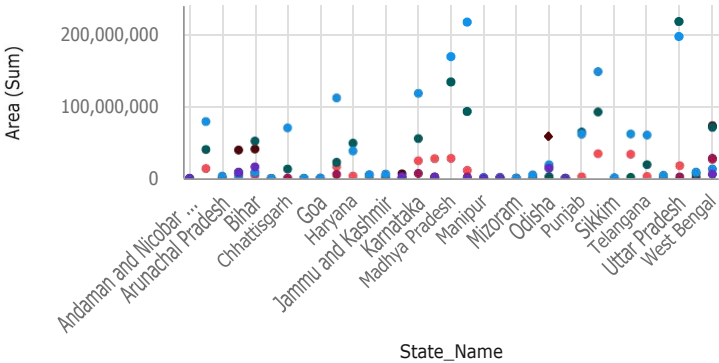
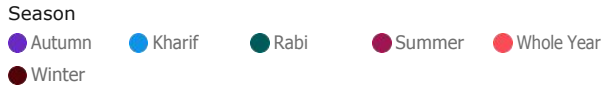
Crop and season



Statewise area and production



Area by StateName and Season



Area and Production by Season



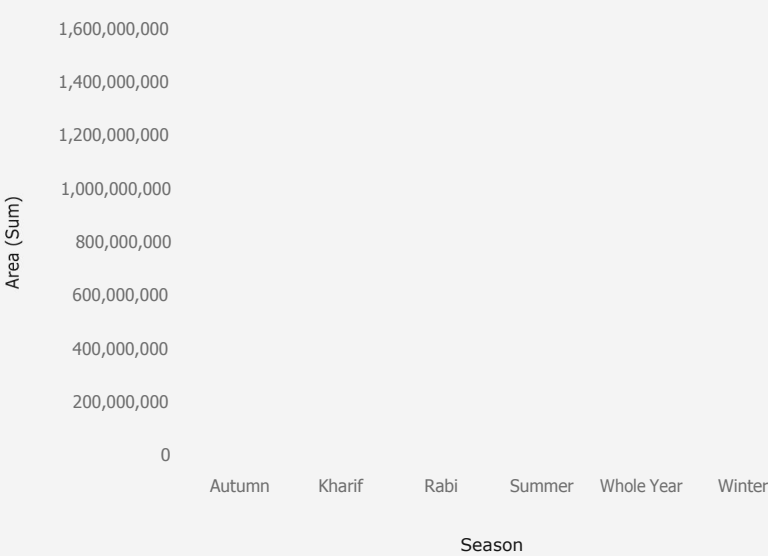
Production for State_Name regions



Production by Crop_Year

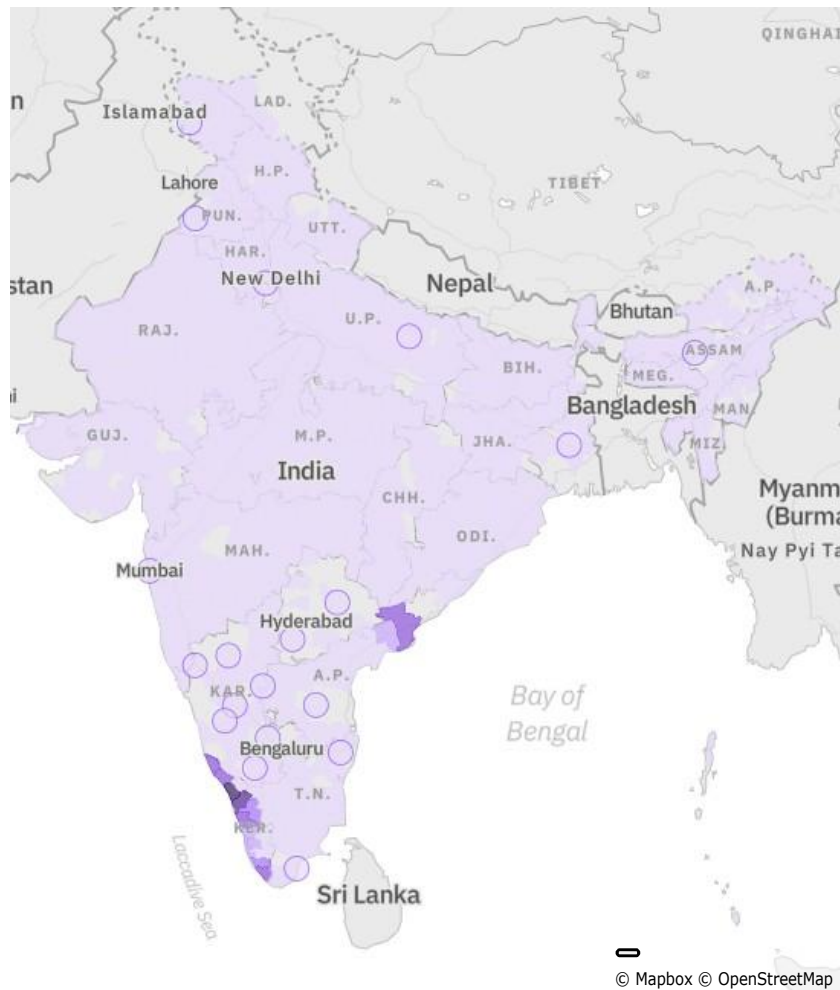
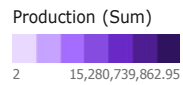


Area by Season

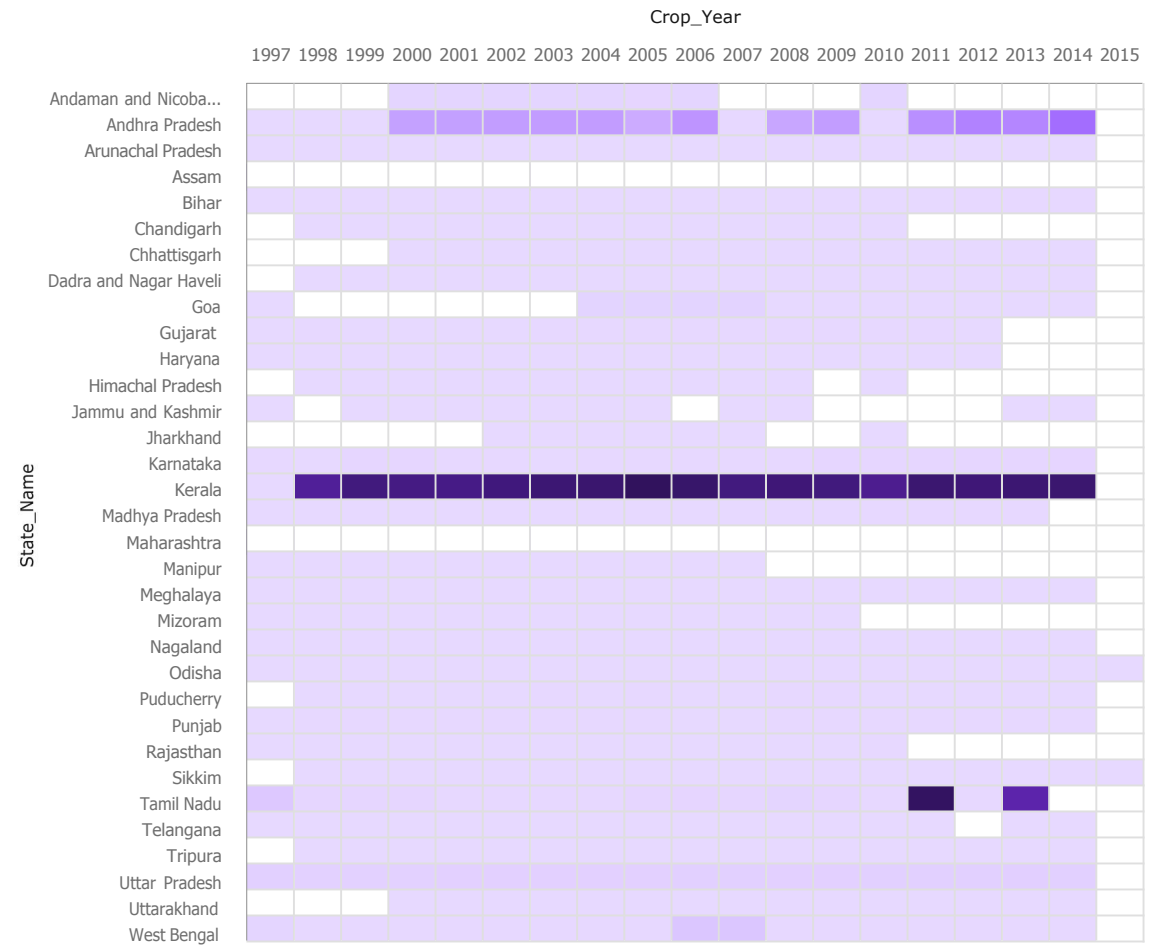
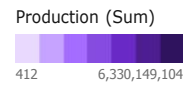


Tab 3

District wise production



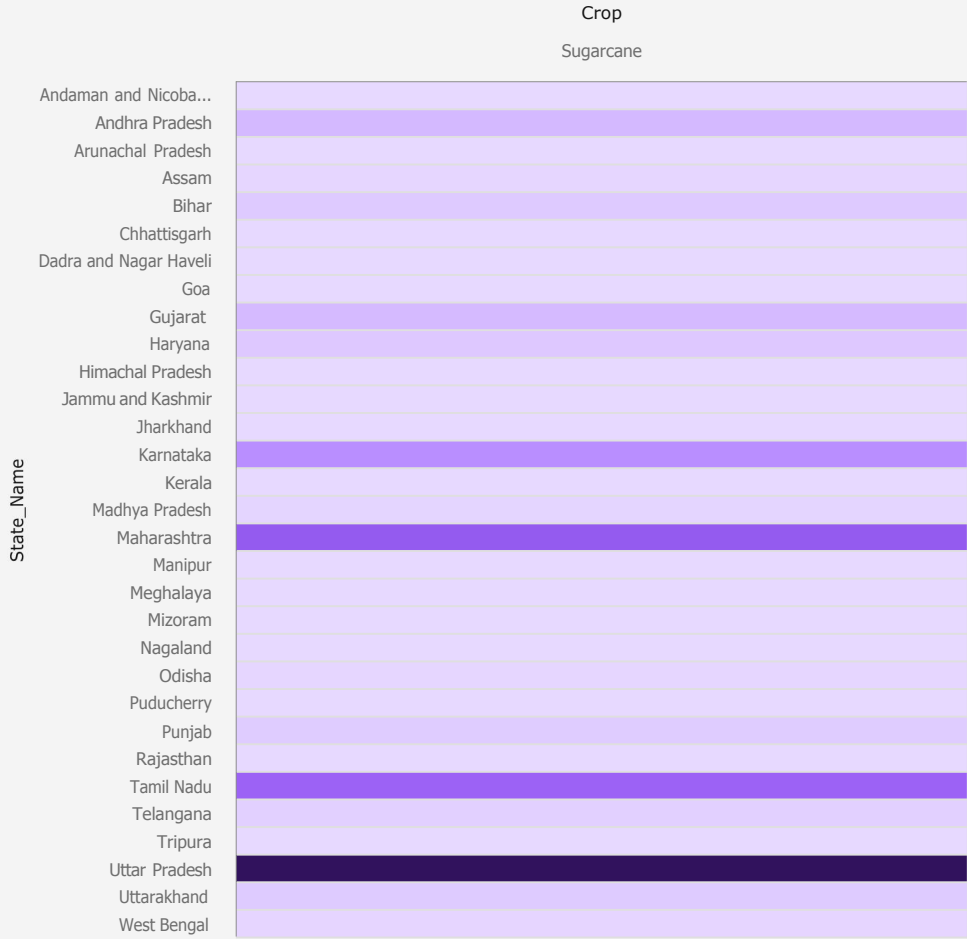
Production by State_Name and Crop_Year



SugarCane Production by State

Production (Sum)

4,2862,202,874,890



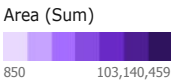
Production for State_Name regions

Production (Sum)

63,956.597,880,045,375.7

Tab 5

Area by State_Name and Season



	Season					
	Autumn	Kharif	Rabi	Summer	Whole Year	Winter
State_Name	Andaman and Nicobar Islands					
	Andhra Pradesh					
	Arunachal Pradesh					
	Assam					
	Bihar					
	Chandigarh					
	Chhattisgarh					
	Dadra and Nagar Haveli					
	Goa					
	Gujarat					
	Haryana					
	Himachal Pradesh					
	Jammu and Kashmir					
	Jharkhand					
	Karnataka					
	Kerala					
	Madhya Pradesh					
	Maharashtra					
	Manipur					
	Meghalaya					
	Mizoram					
	Nagaland					
	Odisha					
	Puducherry					
	Punjab					
	Rajasthan					
	Sikkim					
	Tamil Nadu					
	Telangana					
	Tripura					
	Uttar Pradesh					
	Uttarakhand					
	West Bengal					