

Agriculture Project

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- Have a look at the Crop.zip file
- This data contains information crop production
- It has the following fields
 - State
 - District
 - Crop
 - Crop_Year
 - Season
 - Area
 - Production
 - Yield

- Find the state which has more production during Rabi season for all years
- Find the district which has more yield during Kharif for all years
- Find the draught year from this data
- Find the state which produces more rice and more sugarcane

- Create 5 problem statements to display more information about the analysis of this statement
- Assume that you are employed as a crop insurance agent, which crop will you recommend for insurance, why?
- Suppose, you can travel back and land in a particular year what would be your recommendation to farmers to produce a particular crop for that particular year?

- Create a piece of software to get the following input and provide the analysis of yields for the entire nation
 - Year
 - Season
 - Crop
 - Production

- Provide a categorical data analysis
- Provide a pairplot using kde
- Find the correlation between each variable and create a heatmap
- Create the boxplot for each column
- Create the swarmplot for each column
- Calculate outliers and then provide simple statistics

- Have a look at the CropInsurance.zip file
- This data contains information about various crop details about PMFBY (Pradhan Mantri Fasal Bima Yojana) and WBCIS (Weather based Crop Insurance Scheme)
- It has the many fields, a few are following
 - State
 - District
 - CropType
 - CategoryName
 - FarmerShare
 - GoI Share
 - Insurance Share
 - etc

- Find the state that has more share values
- Find the crop that has more share values from goi
- Find the insurance company that insures most farmer
- Find the list of records with goi subsidy
- Find the list of records with state subsidy
- Find the total premium insurance for the kharif in 2021

- Have a look at the PMFBYStatistics.csv file
- Do a correlation study
- Find the state that has more farmers and least number of farmers
- Find the state that has more loanee
- Find the district that has most area insured

- Assume that you are employed as an agriculture officer for better farming policies
 - Provide a detailed insight about the study from the above database
 - Provide a better policy decision so that government can provide better insurance to government
- Provide geographical information, you can use geopandas to plot the geographically the number of farmers per district or state etc.
- Provide more useful information in terms of geographical and graphical representation