

Estimate the Crop Yield using Data Analytics

Category: Data Analytics

Problem Statement:

Crop production in India is one of the most important sources of income and India is one of the top countries to produce crops. As per this project we will be analyzing some important visualization, creating a dashboard and by going through these we will get most of the insights of Crop production in India.

Abstract:

Agriculture is important for human survival because it serves the basic need. A well-known fact that the majority of population ($\geq 55\%$) in India is into agriculture. Due to variations in climatic conditions, there exist bottlenecks for increasing the crop production in India. It has become a challenging task to achieve desired targets in Agri based crop yield. Various factors are to be considered which have direct impact on the production, productivity of the crops. Crop yield prediction is one of the important factors in agriculture practices. Farmers need information regarding crop yield before sowing seeds in their fields to achieve enhanced crop yield. The use of technology in agriculture has increased in recent years and data analytics is one such trend that has penetrated into the agriculture field. The main challenge in using big data in agriculture is identification of effectiveness of big data analytics. Efforts are going on to understand how big data analytics can improve agriculture productivity. The present study gives insights on various data analytics methods applied to crop yield prediction and also signifies the important lacunae points in the proposed area of research.

What does the Problem Affect?

1. Effects of climatic conditions on crops.
2. Biotic factors that affect crops.
3. Soil salinity and acidity stress.
4. Affected by technological variables.

What is the Issue?

1. Soil Erosion
2. Availability of Water
3. Disease or Pests

When does the Issue Occur?

1. Climate Change
2. Natural Disasters
3. Recession

Where is the issue Occuring?

1. Rural Areas
