

## **Problem Statement:**

The basic aim of this study is:

To fill the major gap between farmers and Technology.

To balance the demand and supply of the population.

On increasing population and decreasing land availability of the farmers in next up coming years (30 Year Later) it is difficult to feeding that much number of peoples

## **Primary objective**

By using Big Data Technology we use algorithm is such a way which can track the farmer's daily operations, store last 30 years of agriculture data like rainfall pattern, soil diagnosis, weather forecast, market information and etc., to trained the model so in the next upcoming year it will predict the correct output — like optimizing delivery truck routes etc.

## **Secondary Objectives:**

On the basis of trusted quality data and Collection of multiple data from multiple sources in real-time, will guide the farmer to optimize their production based on market demand and how to maximize the profitability. This enables farmer to make smart decisions, such as what crops to plant for better profitability and when to harvest. The right decisions ultimately improve farm yields

## **Summary of Review of Literature**

From the review of literature I get know:

We need more Need of Research and development in agriculture ,India spent 31% of its agricultural GDP on research and development in 2010, on the other hand China spent almost double that amount.

Indian total factor productivity growth remains below 2% per year, on the other hand China's total growth is about 6% per year even though China also has smallholding farmers.

In increasing population the land availability to the farmer is less. On an average if all farmers put together, the size of average land holding declined from 1.15 hectares in 2010-11 to 1.08 hectares in 2015-16.

And how to implement good sustainable solutions to sustain our resources and increasing our efficiency, data accessibility, and match the population growth with increased food production

### **Future Scope of the study**

To identify more major factors which covers the big gap in agriculture with big data and make this as reference for someone who wants to find a better solution for the above problems what we have mentioned.

### **Conclusion**

To integrate the next generation of farmers to get sustainable agriculture development. And to reverse the food insecurity, increase the food production help to get supply chain efficient, motivate youth and bring into agriculture, increase the overall strength and performance of the agricultural sector.

### **Reference**

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