**Motivation:**

We all know in Today’s world how important agriculture is for everyone. If we consider the data from FAO(Food and Agriculture organization of United Nations) , 60 percent of world population is depend on Agriculture. Directly and indirectly agriculture is linked with everyone. Healthy food is one of the crucial factor for Humans health, if we eat properly and healthy the chances of living a good life will increase and vice versa. Farming and agriculture has also bestowed employment in every country either in small or big way and contribute to the overall economy especially in developing countries like INDIA where [Ref] 43% people have employment in Agriculture? (<https://data.worldbank.org/indicator/sl.agr.empl.zs)> . With the coming time world population has going to be increase so does the demand for overall crops. In developed countries we do not have that much of agriculture challenges as we have in developing countries but still overall there should be innovation and reforms in this field with time to time.

Not just agriculture the way of doing agriculture is equally important. You need to consider many things while farming like what type of seeds you use, about pesticides, crop selection, suitable climate for efficient production for particular crop, land irrigation, water management, reaping etc. Farming requires resources such as raw materials, land area, water, animals, labor, storage and various tools. Many times due to some unforeseen reason a good percentage of crop production got wasted, farmers have to bear loss which leads to suicide of farmers across various region in the world. [Ref data of suicide]. We know that world has limited resources and smart farming can do wonders for conserving resources or we should at least have an idea about crop production which will help farmers and agriculture related sectors to plan things in advanced.

Using machine learning methods, we can get insights about the data useful for providing enlighten and recommendations to support farmer decisions.

**Research Question:**

By analyzing different agriculture related datasets and its attributes to predict about crop yield and crop production in various regions for coming year. Also doing the comparative analysis of crop productivity of different years.

To achieve this Using various ML methodologies to create ML models and then evaluate the performance of various models

// Reference questions

* If I want to refer one line from an article which is stating a data
* How to do the citation for any paper published