Problem statement:

*) Crop yield prediction using data analytics in order to assure food security by guiding the farmers, planning food storage and transport, and by helping policymakers focus on the most vulnerable communities. Yield prediction in developing countries can help prevent famine, support the local economy, and improve sustainable agricultural practices.

Agricultural success is essential to fight poverty and malnutrition, but with 70 percent of the crops in Senegal being rain-fed, the increase of droughts caused by climate change is a threat to essential crops and has a direct impact on the availability and prices of food.

*) Data analytics based on prior crop prediction, soil quality analysis to achieve high crop yield through out technology solution. The main objectives of this project is to predict crop-yield which can be extremely useful to farmers in planning for harvest

and sale of grain harvest. Implement a Data analytics algorithm that gives better prediction of suitable crop for the corresponding region and crop season in our country. This project aims to predict yields based on location and weather data. The aim of this study is to look at the prediction of crops which will offer high yield within the given location considering the climate and soil parameters.

*)The Problem Statement revolves around prediction of crop yield using Data analytics Techniques. The goal of the project is to help the users choose a suitable crop to grow in order to maximize the yield and hence the profit. The system proposed tries to overcome the drawbacks of existing systems and make predictions by analyzing structured data. The solution we are proposing is to design a system taking into consideration the most influencing parameters to grow a crop and to get a better selection of crops which can be grown over the season. This would help reduce the difficulties

faced by the farmers in selecting the crop to get high yield and thus maximize profits which in turn will reduce the suicide rates.

*)India is an agricultural country. Yield of each crop depends on its dependent factors. It is very important to predict the yield of a crop to help farmers. Crop Yield Prediction is predicting the yield of a crop in future based on the dependent factors. Crop yield is dependent on factors like rainfall, pressure, temperature and area orthe geographical location. This is achieved by

(a) Designing a system to predict crop yield.

(b) Providing graphical user interface to view prediction result and historical datasets.