PROJECT REPORT TEMPLATE

1.INTRODUCTION

1.1 Overview

Numeric data is easier to handle hence soil is converted in numeric value. According to water retainity soil is divided into 10 parts with 10 as max retainity soil and 1 the lowest water .

1.2 Purpose

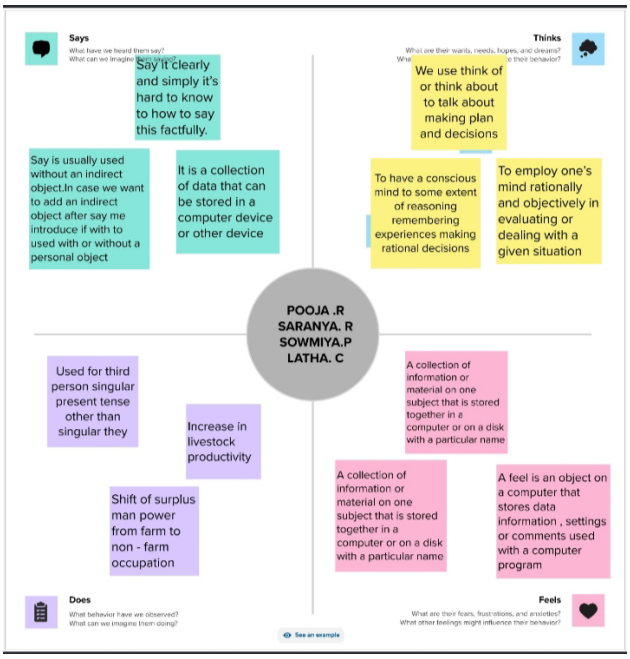
1. Preparation of fields for sowing of a crop with adequate availability of seed zone

2. Contributing to optimal crop growth, development and yield.

3. Predict appropriate crop from given temperature and rainfall and soil.

2.PROBLEM DEFINITION AND DESIGN THINKING

2.1 Empathy Map



2.2 Ideation and Brainstorming Map

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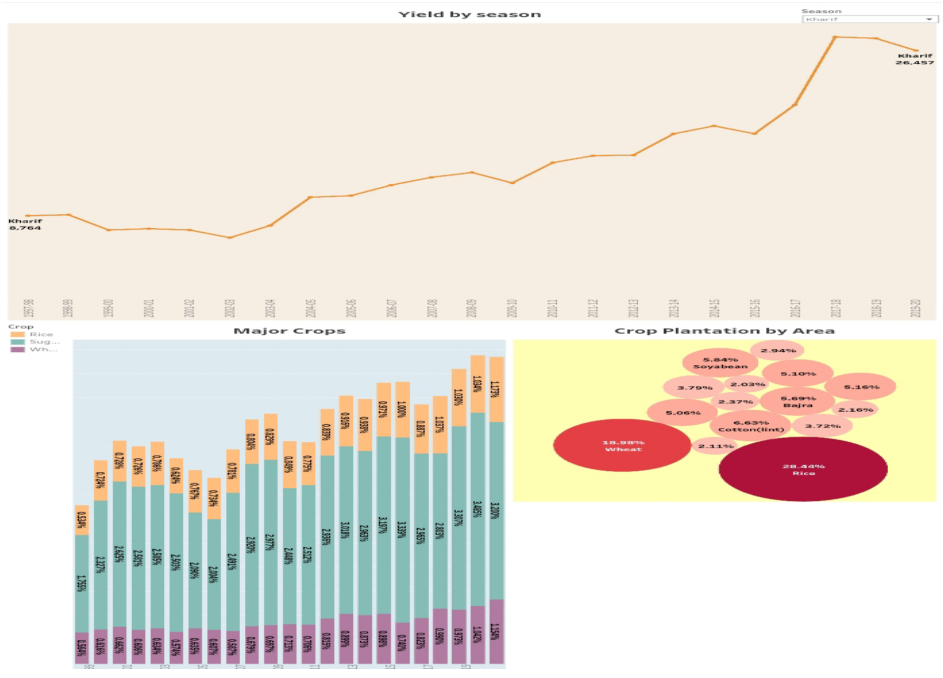
3.RESULT

DASHBOARD :



STORY :

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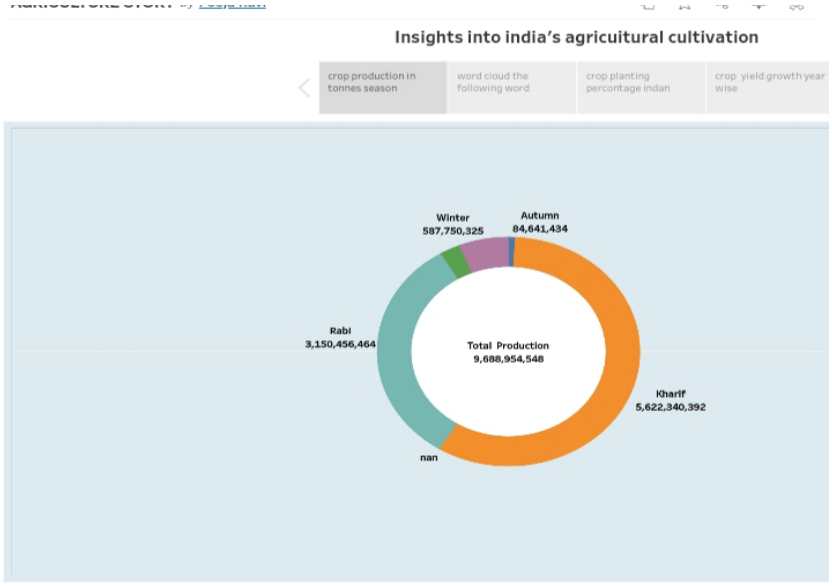

4.ADVANTAGES AND DISADVANTAGES

Advantages of agricultural crop production

A defined range of maximum and minimum temperatures from the boundaries of observable growth.

The impact of climate change are most evident in crop productivity because this parameter represents the component of greatest concern to producers, as well as consumers.

Disadvantages of agricultural crop production

It has a profound influence on crop growth, development and yields. Weather aberrations can cause physical damage to crops.

5.APPLICATIONS:

Accordingly we have developed a prediction where current temp, soil condition and rainfall when entered we tell the crop which will give the highest yield. India is a land of diversity and varied soil conditions are found here.Each crop needs varied soil conditions and hence india is a homeland for production of various crops. According to water retainity these soils when divided are good for a particular crop.

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6.CONCLUSION

Weather aberrations can cause physical damage to crops.With help of this project we can predict in certain environmental conduction which crop should be taken.From the graph of % of production we can determine sowing and harvesting period of particular crop in given temperature and rainfall. This data will continue to enhance farmer efficiency by further enabling them to monitor each plot of land and determine the precise input needed for their crops.

7.FUTURE SCOPE

Predict appropriate crop and maximum yield in the climate change.

Collection of data, Analysis of it and modification of the algorithm.

IOT application in agriculture, automation in production line and man free agriculture which is the future of the world

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