Project Report Template

1 Introduction

1.1 Overview

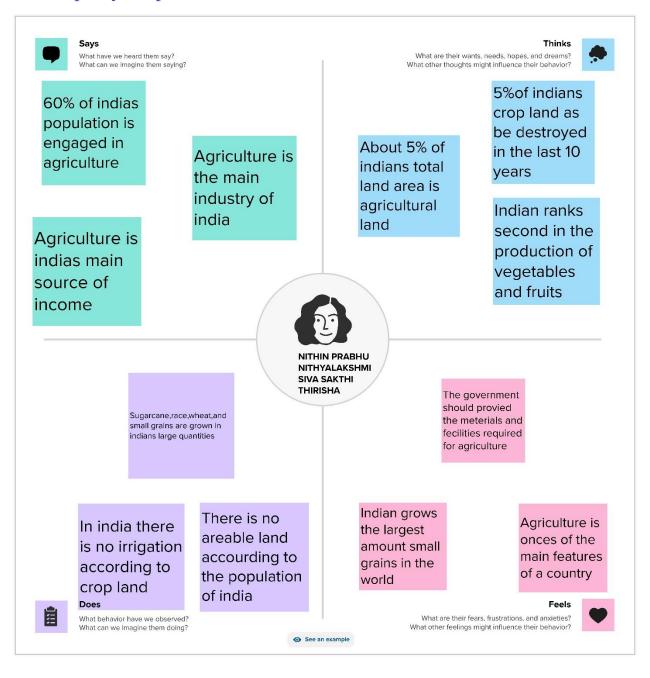
India's already large population is expected to become the world's largest in the next 20 years, while economy will soon overtake Japan's to become the world's third largest. The resulting increase in the demand for food will need to be met through higher agricultural productivity or by increasing food imports. This article discusses sum of the key areas of progress and challenges for India's agricultural sector, including, productivity, water management, government policies and programs, and food distribution and storage.

1.2 Purpose

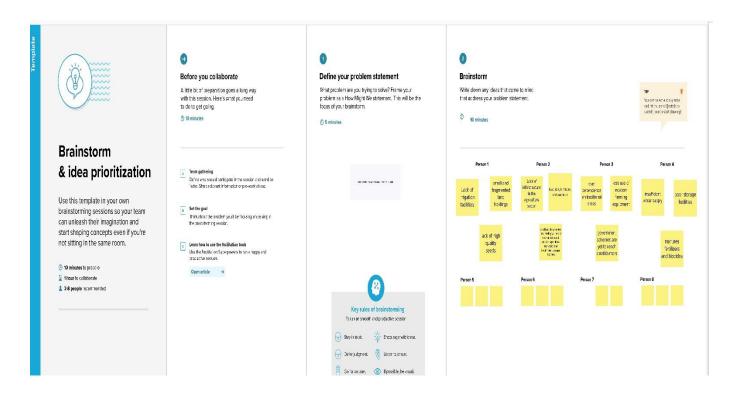
India has a particular large agricultural sector. While the sector's share of GDP has halved in the past 30 years to around 15 per cent, it still employs around half of India's workforce and accounts for much of the volatility in Indian GDP. India has the second largest area of arable land in the world and is major producer of a number of agricultural products (Table 1). Around the turn of the century, India overtook the United States as the world's largest producer of milk and is also a major producer of pulses, such as chickpeas and lentils, which are major sources of protein in vegetarian diets.

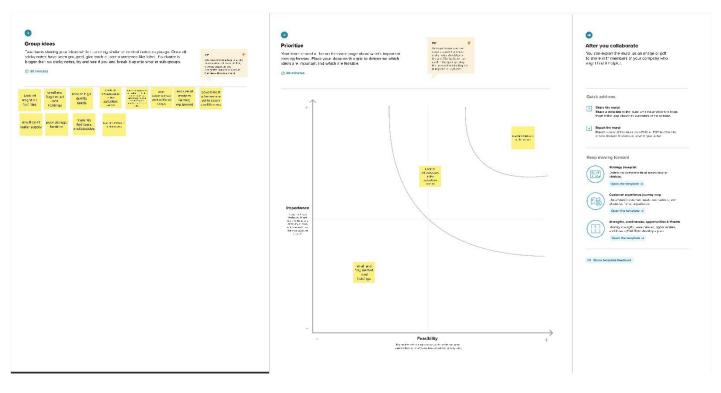
2 Problem Definition & Design Thinking

2.1 Empathy Map

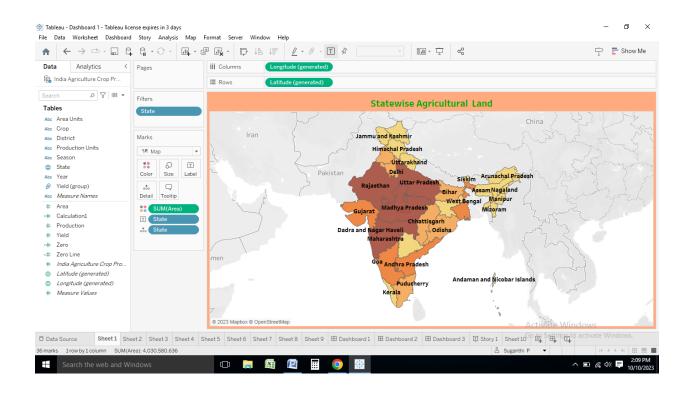


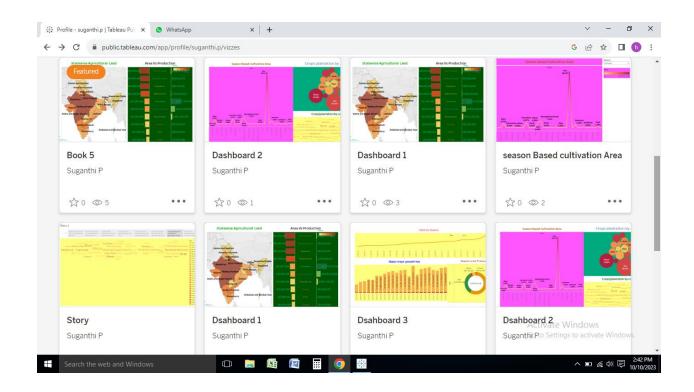
2.2 Ideation & Brainstorming Map

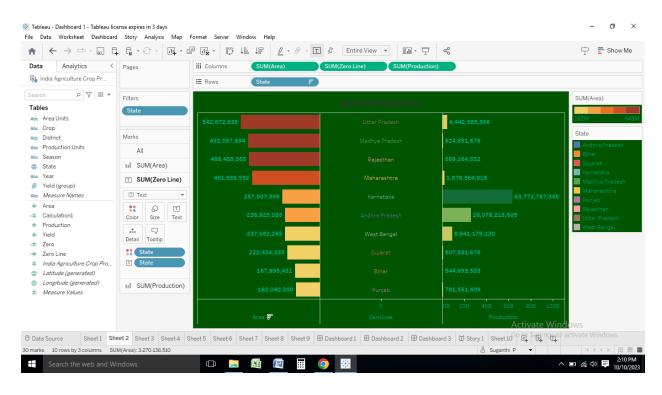


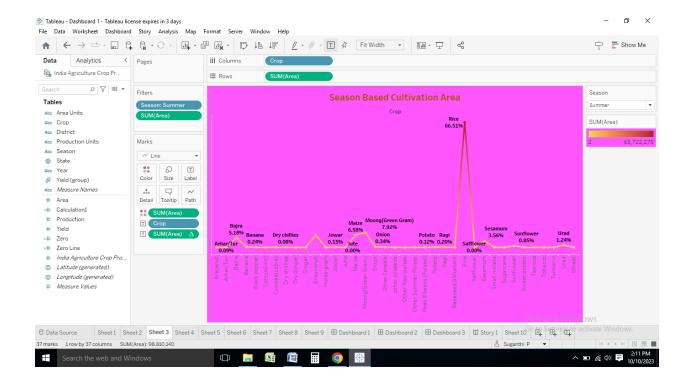


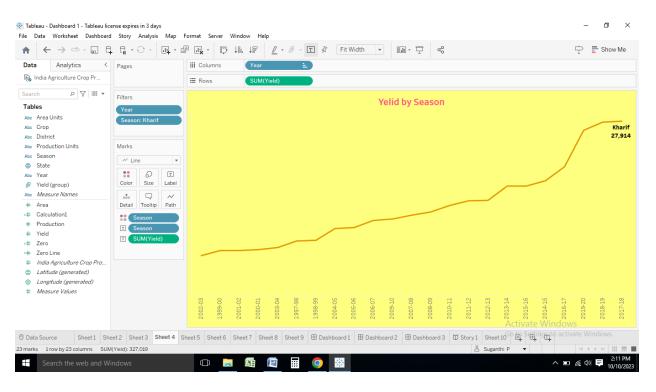
3 RESULT

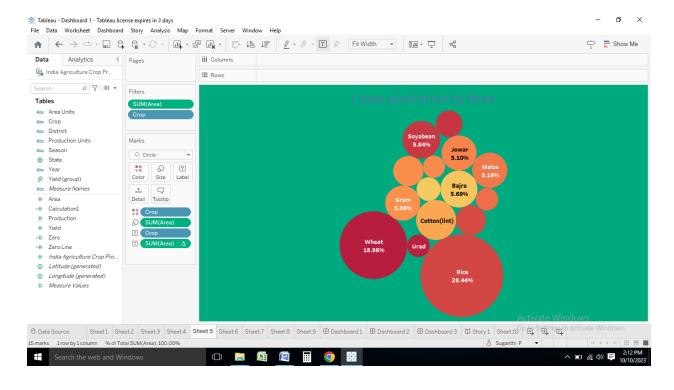


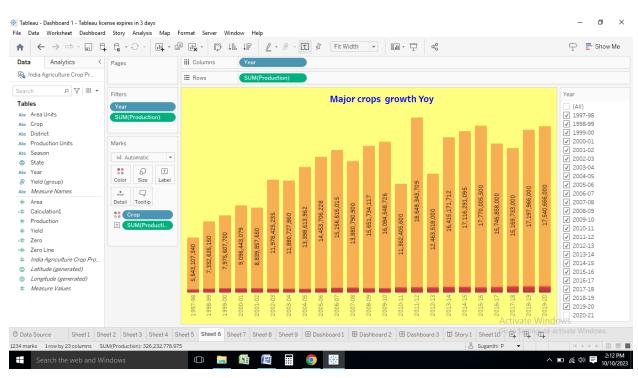


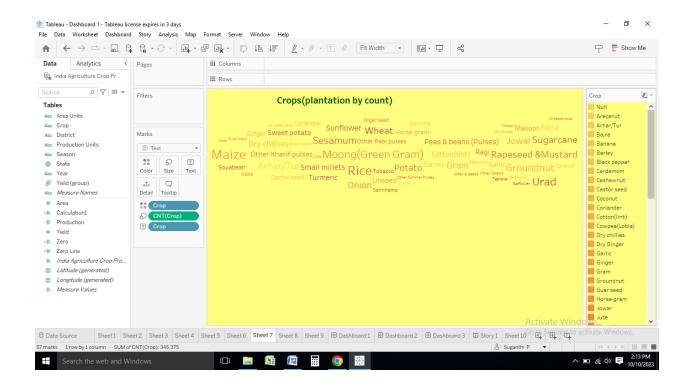


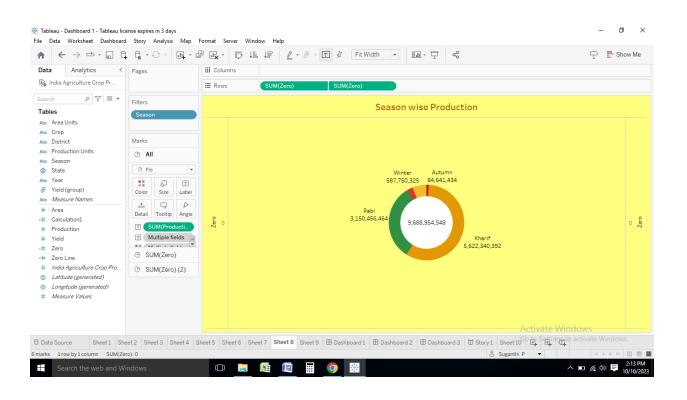


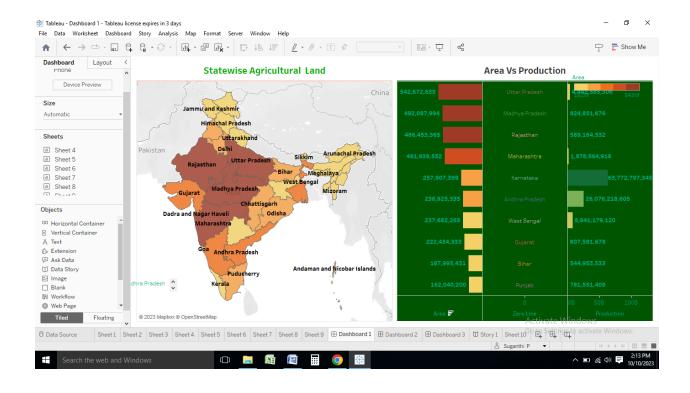


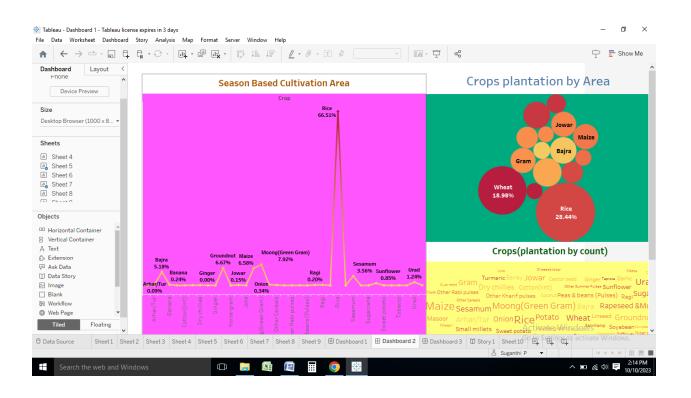


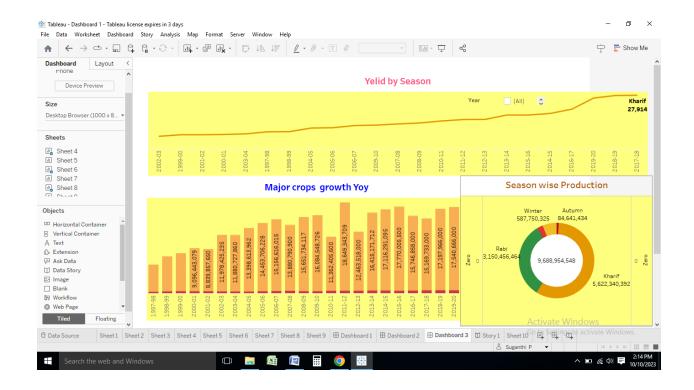


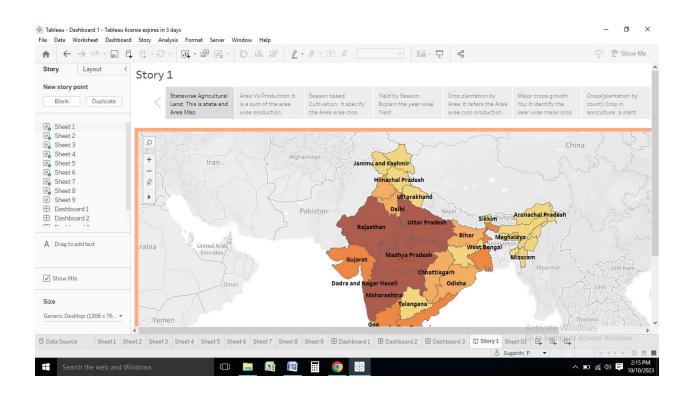


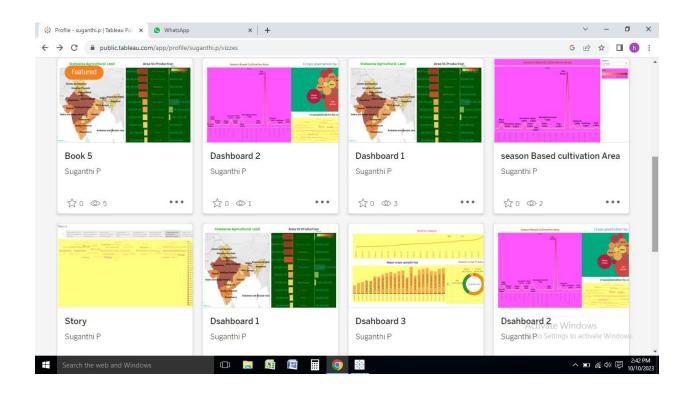


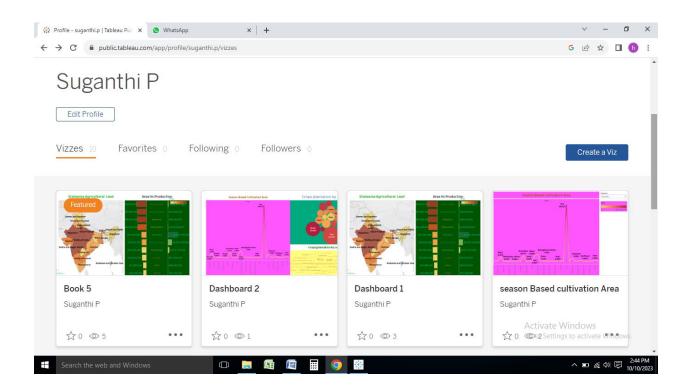












4 ADVANTAGES & DISADVANTAGES

4.1 ADVANTAGES

- (1) Contribute to improving the sharing of agricultural information resources, thereby increasing agricultural productivity and promoting the healthy and stabled eve lopment of the agricultural industry.
- (2)It is helpful to strengthen the communication between different agricultural regions, promoteagricultural production to industrialization, and the development of production standardization, andenhancethe competitivenessoftheagricultural economy.
- (3) it is helpful to promote the development of agricultural economy in multiple directions and transform the traditional agricultural economic management mode.

It is helpful for farmers to quickly and comprehensively understand the dynamic information of the agricultural market, thereby adjusting the agricultural structure, producing agricultural products with large market demand, obtaining higher economic benefits, and promoting urale conomic development, and realizing agricultural product marketing information management in agriculture The application in the economy plays an important role in promoting the development of agriculture in our country

- (4)Agriculture impacts society in many ways, including: supporting livelihoods through food, habitat, and jobs; providing raw materials for food and other products; and building strong economies through trade.
- (5) Agriculture is the foundation of India's livelihood civilisation, culture and heritage with a population of 1.39 billion, India is the second most populous country in world and is expected to overtake China as the most populated by 2027-30 with 328 million hectares (Mha) of land, India is the world's seventh largest country India has~160 Mha of arable land, the second largest after the us.

(1) Lackofprofessional andtechnical personnel

Because the application of information technology to design agriculture is relatively late and theapplication time is relatively short, there is a shortage of professional information technology talents inagricultural economic management. In addition, the construction of information networks for somerural public utilities is not perfect, causing farmers to be unable to obtain corresponding information inatimelymanner and hinderingthedevelopmentofrural economic management

(2) Lackofaperfectplatform

Most local government departments do not have a high level of understanding of agriculturalmodernization. Underthebackground of the information age, the development of agricultural economy needs to rely on strong support from government departments. Only when the government correctly analyzes the conditions of the agricultural economic market can it guide the rapid agricultural economy Stable development.

(3) Farmers'informatizationawarenessisweak

Somerelativelybackwardareasarenotdeepenoughinagriculturalmana gementconcepts, agricultural economic development and information management to effectively guide local farmers inconstruction. This problem has seriously hindered the process of agricultural economic construction and information management.

- (4) Erosion of soil by heavy rain, floods, insufficient vegetation cover etc., reduces farm productivity. Inadequate irrigation facilities and poor management of water resources have led to a great decline in agricultural productivity.
- (5) **Expensive products**: One of the major problems of organic farming methods is that sometimes it can get a bit costly. Some products related to organic farming are too expensive, leading to some common people to not be able to afford it.in a counter like India where most of its livelihood are farmers, organic farming brings a huge problem to it. However, organic farming in Tamil Nadu have had some success stories.

5 APPLICATION

5.1 Animal nutrition

Many of tata Chemicals' products, such as Alkakarb, are ideally suited for poultry feed and diet for dairy animals, as they enhance the nutritional value of the feed.

5.2 chemicals

Tata chemical's products are utilised as essential raw materials in a wide ranger of chemical industries and processes.

5.3 constructions

Tata chemicals supplies high quality, premium grade cement to the building industry, under the brand name Shudh cement.

5.4 Food and nutrition

We have a big presence in several segments of the food industry -table salts, dals and pulses, masalas ad spices, nutritional solutions, and so on.

5.5 Glass

Our soda ash meets the stringent quality requirements of the glass industry. Tata chemicals also offers customised products for specific requirements. Etc......

6 CONCLUSION

The Indian economy is an agro-economy and depends highly on the agriculture sector. Despite just supporting the Indian Economy, the agricultural sector also supports the industrial sector and international trade in imports and exports.

Agricultural Economics is a branch of economics that helps to use optimise the use of resources that are bottlenecks or scarce to increase the efficiency and effectiveness of production processes. Nowadays, agriculture is not just limited to planting seeds and harvesting crops.

7 FUNDITURE SCOPE

Agriculture is the backbone of India's economy. It is the principallivelihoodforover58% of the rural households. But it faces difficult chall enges from sowing to harvest. Hence modernization of agriculture is most needed to address these challenges. In agriculture there quickadaptationtoAlinitsvariousfarmingtechniqueswhereArtificialIntelligen ce(AI)isoneofthekeyareasofresearchincomputersciencewithits technological advancement and vast area of application, AI isbecoming verv rapidly because of its robust applicability the problem sparticularly that cannot be solved well by humans. Such an area of extreme importance is agriculture where about 80% of the population is directly agricultural engaged 159.7 million hectares of aventurecannotrunsmoothly. Hencefarming solutions which are Alpowered ena bleafarmertodomorewithless, enhancing the quality, also providing GTM (go-to-market strategy) strategy for crops. A directapplication of AI (Artificial Intelligence) machine intelligence or across thefarmingsectorcouldacttobeanapotheosisofshiftingoftraditionalfarmingpra cticetoday. Alpowered agriculture, analysing its service in interpreting, acquiring andreactingtodifferentsituationtoenhanceefficiency.

Artificialintelligencetechnologyissupportingdifferentsectorsinagriculturet oboostproductivityandefficiency. Alsolutions are assisting to overcome the traditional challenges in every field. Intervening of AI inagriculture is helping farmers to improve their farming efficiency and reduce environmental hostile impacts. The agriculture industry strongly and openly grasped AI into their practice to change the overall outcome. AI is shifting the way of food production where the agricultural sector's emissions have decreased by

20%. Inculcating AI technology in agriculture is helping tocontrolandmanageanyuninvitednaturalcondition.