

Annadata



AI based crop recommendation system

Problem statement

- Every crop has a **specific requirement** of **climatic** conditions and **soil health**(nutrients and pH level).
- **Farmers** are generally **confused** regarding the best choice of crops to be grown for best yields and best profits.
- Hence they seek guidance by physically contacting **Agricultural Scientists** or consulting among peer farmers.
- Farmers living in **remote areas** find it **difficult** to physically consult experts and arrive at an **appropriate** guidance.



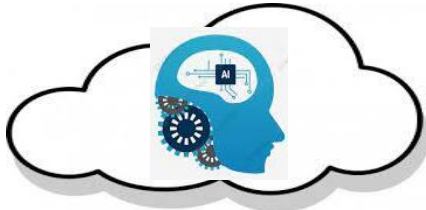
AI based Online Crop Guidance

- We will be using **Machine Learning algorithm** on a Kaggle provided dataset defining co-relation between different climatic condition and nutrient content of soil and corresponding crop.
- Based on the pattern learnt from the dataset, the **ML model** would be able to **recommend** an appropriate choice of **crops** to be grown as per the input given by **farmers** defining **climatic conditions and soil health**.
- It is a **web based application** named **Annadata** which could be accessed on **any device**.



Architecture of Annadata

Heroku cloud API



Input
Data sent
through
API

AI model embedded
on Python Flask server

After processing the input
on soil nutrients and climatic
conditions, the AI model
sends back the name of crop
which would give maximum
yield and maximum profit

ReactJS
front-end



Farmer feeds
information on soil
nutrient content and
climatic conditions.



Target Audience



**Nagar
Panchayat**

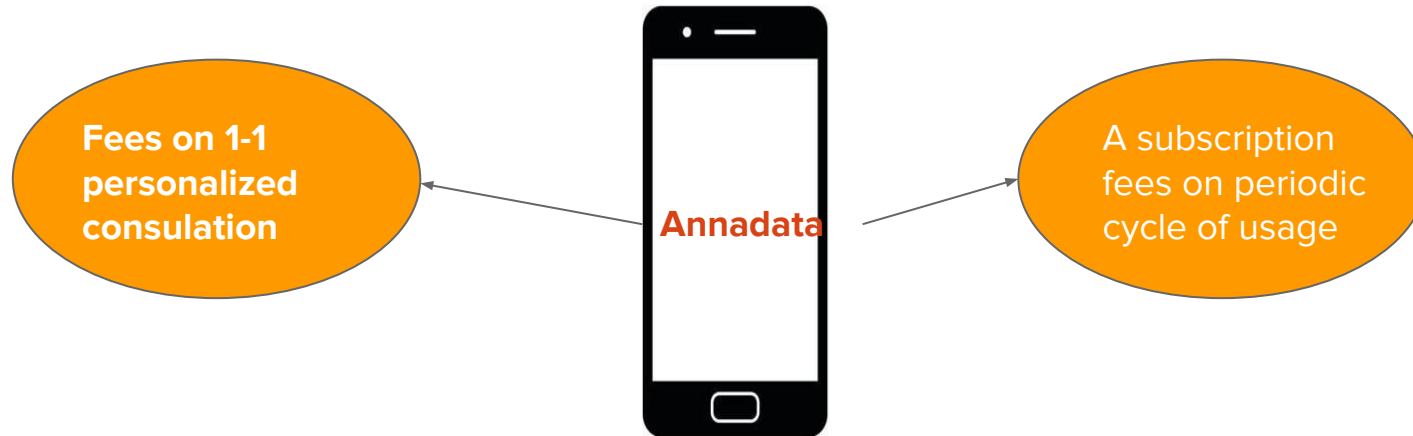


**Farmer's
co-operative
societies**



**Individual
farmers**

Revenue Model



We would be charging a subscription fees for using our application for single usage or using it for periodic monthly, half-yearly or annual subscription plans. We would also be providing personalized consultation to farmers for which an additional fees would be charged.

Video demonstration of Prototype(Click to Play)

