## Alternate Crop Recommendation

#### **SmartAGRI**

Team Members -

- Nishanth S Shastry
- Partheesh Ranjan Singh
- Chethan M
- S Monish



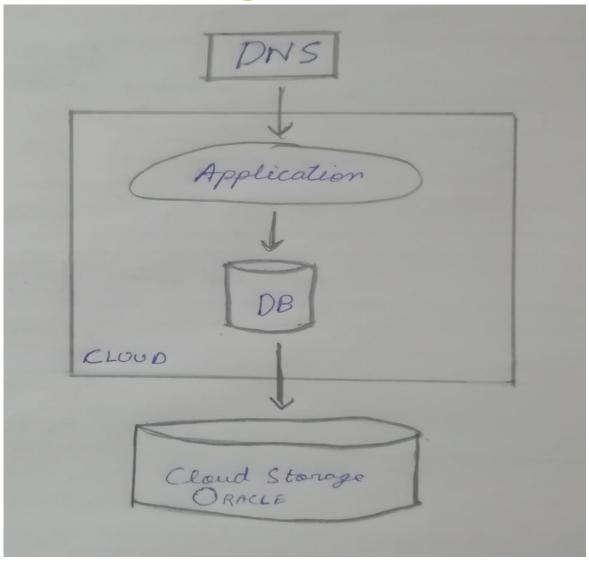
#### Overview

- The application will help the farmers to improve their profit and yield by understanding the yields of different crops in different areas.
- Technologies used: -
  - Python (many python libraries)
  - HTML, CSS, JavaScript
  - Django(Web framework)
  - Google translate API
  - Dialogflow (Chatbot)
  - Oracle Cloud Platform

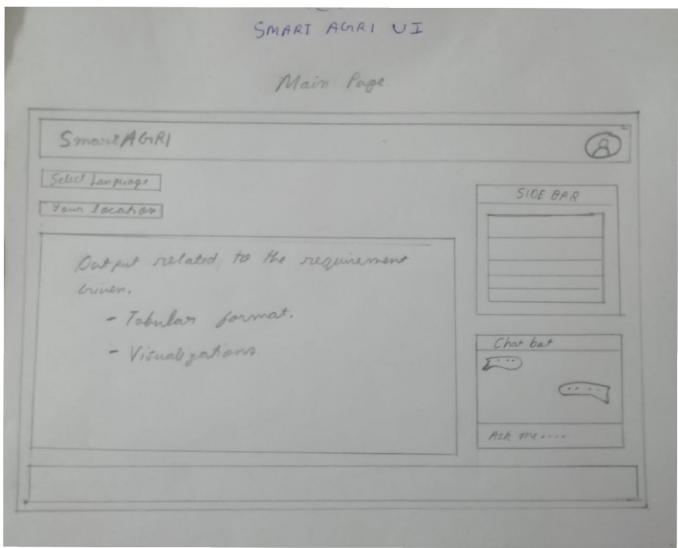




# High Level Design



# **UI** Design



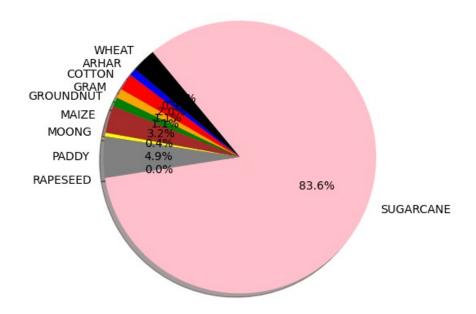
**UI** Design

Log In		
Usernam	e e	
		7
fact won	d	
Lagin	Forgat password	-
Register		
Ujermanne		
Email		
Passwan	d C	
combinin	Pagurand C	
signup		

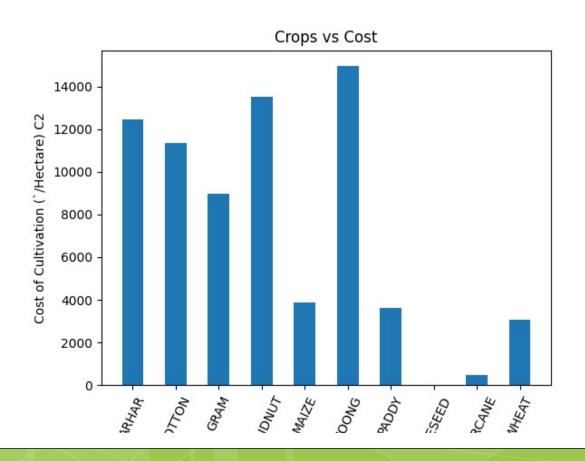
## **ML** Algorithms

- K Nearest Neighbor
- Multi Linear Regression
- The ML Algorithm used is the K-nearest neighbor because it is a classification algorithm, helps us to suggest the type of crop with more yield, with more accuracy than other classification algorithms.

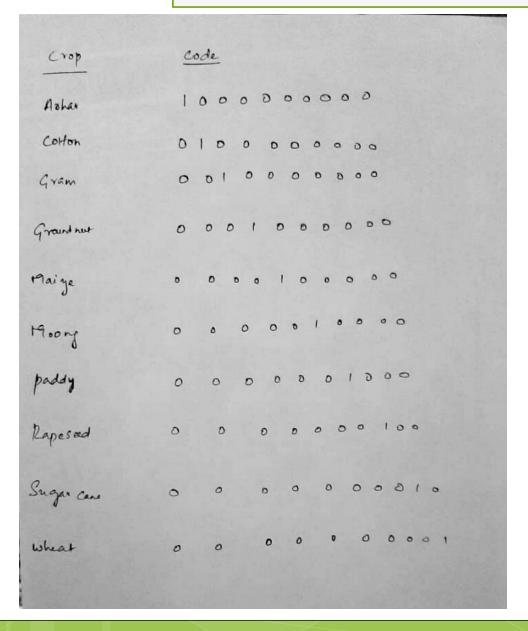
## Yield & Cost-Profit



## Yield & Cost-Profit



# Encoding done for crops



#### **Unique Features**

- 1. Simple Login System
- 2. Multilingual Application
- 3. Chatbot
- 4. Responsive Web Application

#### Conclusion

From our perspective, the application will help the farmers by helping them to select a proper crop which is lower in terms of investment and more in terms of yield and profit.









#### Thank you



Any Questions?



