Crop Yield Prediction

Revolutionizing Agriculture with Data-Driven Insights

Problem Statement

Challenges in Agriculture

- Unpredictable Yields
- Climate Variability
- Economic Impact



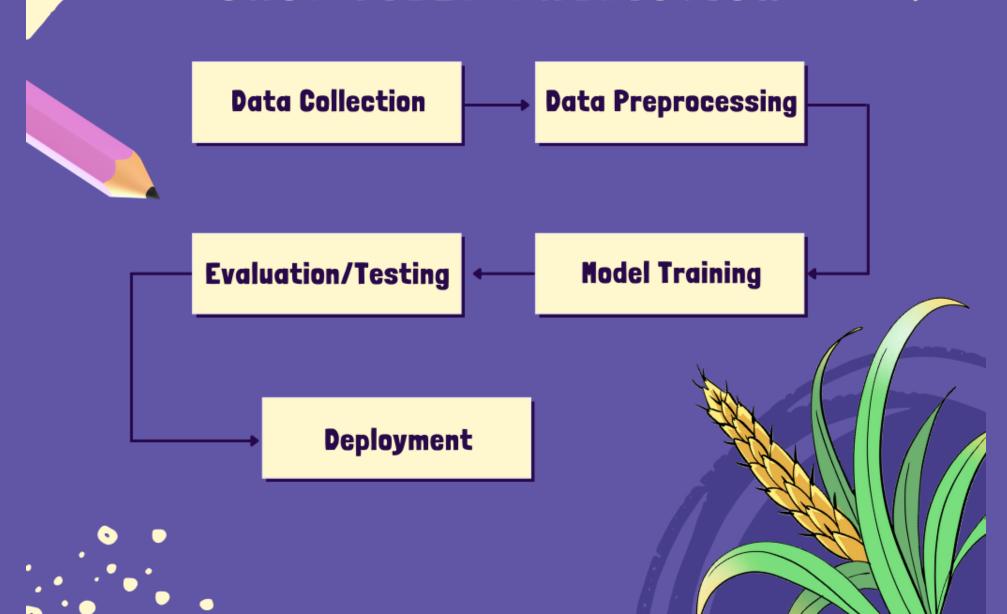
Market Opportunity

Potential Impact

- Global Agriculture Market
- Target Audience
- Potential Impact

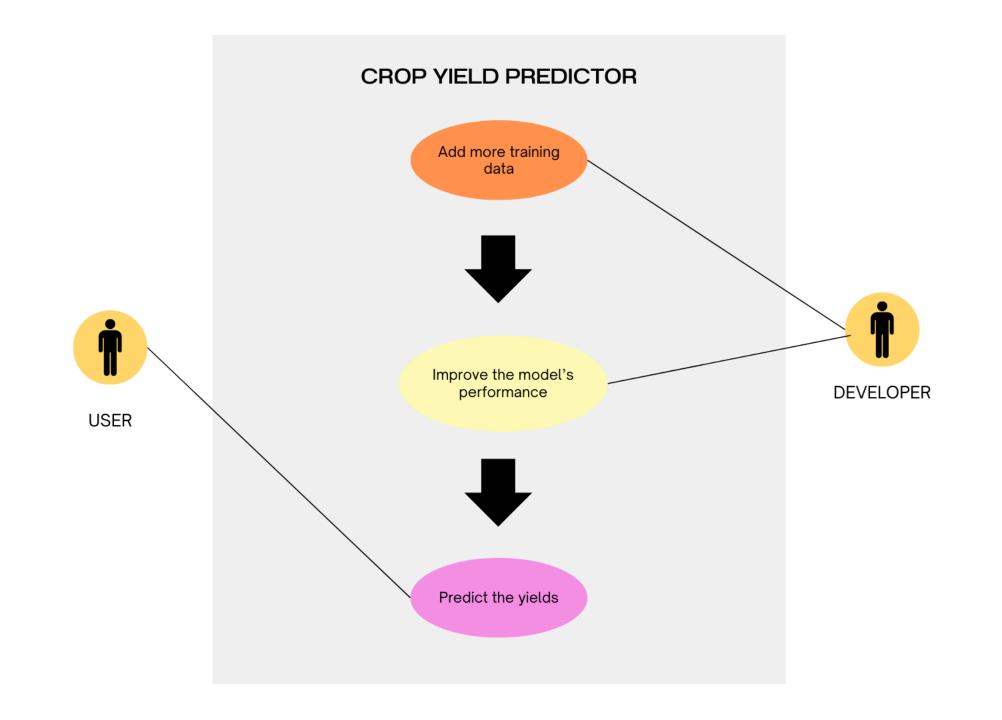


CROP YIELD PREDICTION



GANTT CHART PLANNING

WEEKS	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
DATA PREPROCESSING						
EXPLORATORY DATA ANALYSIS						
MODEL SELECTION						
TESTING AND EVALUATION						



Class Architecture

DATA PREPROCESSING

- +data_source:Stores the orignal data
- +preprocessed_data: Stores the preprocessed data
- +load_data(): Loads the data
- +clean_data(): Cleans the data
- +feature_transformation(): Performs the necessary feature transformations

MODEL

- +w:weights of the model +b:bias of the model (Extra hyperparameters depending on the most appropriate algorithm)
- +intialize_hyperparameters():Initialize the hyperparameters
- +tune_hyperparameters():Perform hyperparameter tuning
- +train_model():Train the model on processed data and make predictions on it.

Future Plans

- Extensive Data Integration
- User Feedback
- Expanded Features



Thank You!