

## MEETING 2

### CROP RECOMMENDATION

DATASET- <https://www.kaggle.com/datasets/atharvaingle/crop-recommendation-dataset>

The dataset has 3 main features-

- a) Soil Quality (N, P, K values)
- b) Climatic Attributes (Temperature, Humidity)
- c) Crops that are feasible to grow in the above soil type and location-wise climatic conditions.

#### 1. PROPOSED WORKFLOW-

- a) Collect Dataset (done in step 1.)
- b) Data Preprocessing- Identify features and target labels.
- c) Train ML Models-
  - a. We can go with Decision Tree, Logistic Regression, Random Forest, SVM since we are dealing with categorical data.
  - b. Make predictions using the model with best performance on test data.
  - c. Save each model as Pickle object.
- d) Deploying the model using Streamlit or as a Flask Application with user interface. (FUTURE PLANNING).

#### 2. WORK DISTRIBUTION-

- a. DATASET IMPORT- NARIMA
- b. DATA EXPLORATION- ANUHYA
- c. WORKFLOW- ARYAN
- d. MODEL TRAINING- ARYAN, YASH, CHIT
- e. MODEL COMPARISON- YASH
- f. MAKE PREDICTION- MERIEM

3. REPO MANAGEMENT- ARYAN
4. NOTEBOOKS MANAGEMENT- YASH
5. WORK ON THE PPT- ANUHYA, CHIT, NARIMA