

# BVRIT HYDERABAD College of Engineering for Women

## Crop Prediction

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Kavya Swamy - 18WH1A0233-EEE

Vaishnavi Yelisetti - 18WH1A0567-CSE

M.Jhahnavi- 18WH1A0461-ECE

Karnati Neha Reddy- 18WH1A1231-IT

A.Shalini- 18WH1A05A9-CSE

May 29, 2021



# Problem Statement

Build a Machine Learning model to predict the most suitable crop to grow on a particular farm.

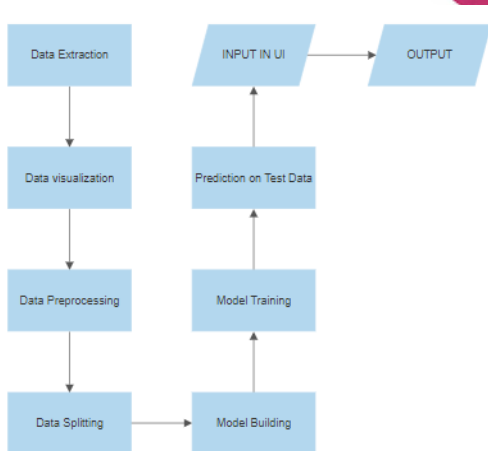


# Use Cases

- To help the farmer choose the right crop based on different parameters
- To avoid serious setback in productivity.



# Approach



# Dataset

- **No of Crops:** 22
- **Classification:** Rice, Maize, Chickpea, Kidneybeans, Pigeonbeans, mothbeans, Mungbean, Blackgram, Lentil, pomegranate, Banana, Grapes, Mango, Watermelon, Muskmelon, Apple, Orange, Papaya, Coconut, Cotton, Jute, Coffee
- **Class variables:** 'N', 'P', 'K', 'temperature', 'humidity', 'pH', 'rainfall'



# Technical Stack

## Libraries:

- Pandas
- Numpy
- Seaborn
- Matplotlib
- Sklearn

## Tools:

- Google Colab
- Latex



- Understanding Classification Algorithms
- Matplotlib plots



# Challenges Faced

- Model Overfitting
- Working with Flask





# Output

**CROP PREDICTION**

25

130

200

25

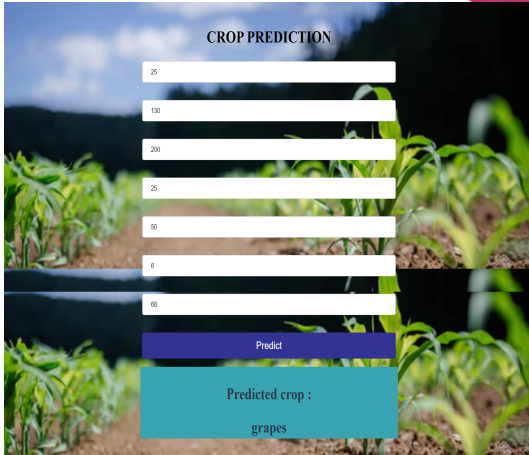
50

6

68

Predict

Predicted crop :  
grapes



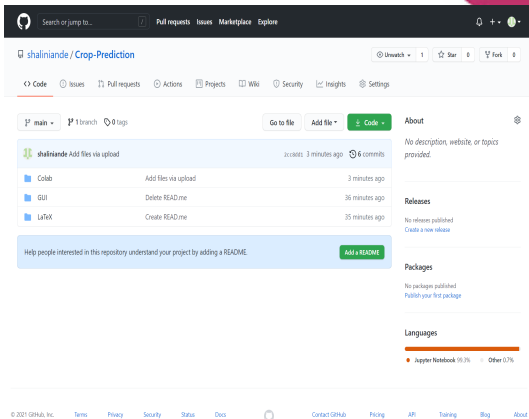
<https://colab.research.google.com/drive/1zqC1Vt7tEr7QsdOvu1rpnodfKFY1k7Rb?usp=sharing>



<https://github.com/shaliniande/Crop-Prediction>



# Git Commits



The screenshot shows the GitHub interface for the repository 'shalinande / Crop-Prediction'. The repository has 1 branch (main) and 0 tags. It contains 6 commits, with the most recent being 'Add files via upload' 3 minutes ago. The repository also has a README file, which was created 35 minutes ago. The repository is currently empty, with no releases or packages published. The repository is written in Python (99.3%) and has a README file (0.7%).

shalinande / Crop-Prediction

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shalinande Add files via upload 3 minutes ago 6 commits

Colab	Add files via upload	3 minutes ago
GUI	Delete README	36 minutes ago
LaTeX	Create README	35 minutes ago

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<https://dphi.tech/challenges/data-sprint-26-crop-recommendation/62/overview/about>



*Lets see the Demo*

