

BVRIT HYDERABAD College of Engineering for Women

Crop Prediction

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Problem Statement

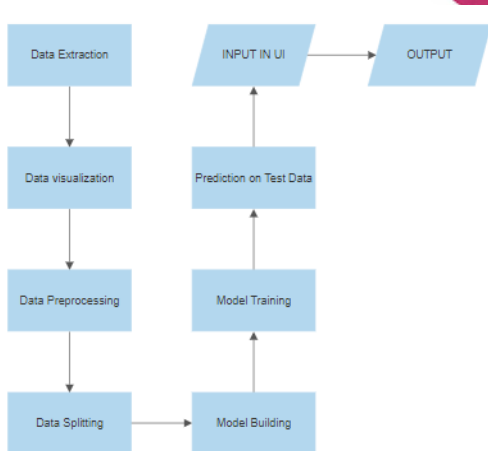
Build a Machine Learning model to predict the most suitable crop to grow on a particular farm.



- 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
- Understanding Documentation



Output

CROP PREDICTION

25

130

200

25

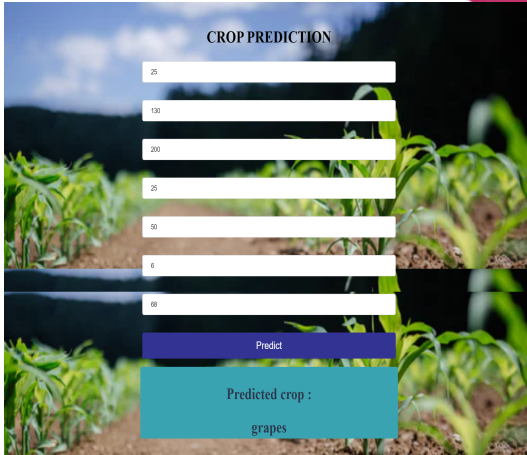
50

6

68

Predict

Predicted crop :
grapes



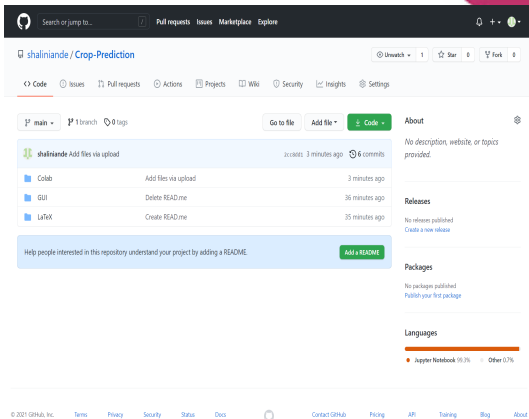
<https://colab.research.google.com/drive/1zqC1Vt7tEr7QsdOvu1rpnodfKFY1k7Rb?usp=sharing>



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



Git Commits



The screenshot shows the GitHub interface for the repository 'shalinande / Crop-Prediction'. The repository has 1 unwatched, 1 star, 8 forks, and 0 issues. The main branch is 'main' with 1 branch and 0 tags. The repository is described as 'Add files via upload' with 2 commits, 3 minutes ago, and 6 commits. The commit history shows three commits: 'Colab' (Add files via upload, 3 minutes ago), 'GUI' (Delete README, 36 minutes ago), and 'LaTeX' (Create README, 35 minutes ago). A button 'Add a README' is visible. The right sidebar contains sections for 'About' (No description, website, or topics provided), 'Releases' (No releases published, Create a new release), 'Packages' (No packages published, Publish your first package), and 'Languages' (Jupyter Notebook 99.3%, Other 0.7%). The footer shows copyright information for 2021 GitHub, Inc. and links to Terms, Privacy, Security, Status, Docs, Contact GitHub, Pricing, API, Training, Blog, and About.

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main 1 branch 0 tags Go to file Add file Code

shalinande Add files via upload 2 commits 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

Help people interested in this repository understand your project by adding a README. Add a README

About No description, website, or topics provided.

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Languages

Jupyter Notebook	99.3%	Other	0.7%
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<https://dphi.tech/challenges/data-sprint-26-crop-recommendation/62/overview/about>



Thank you

