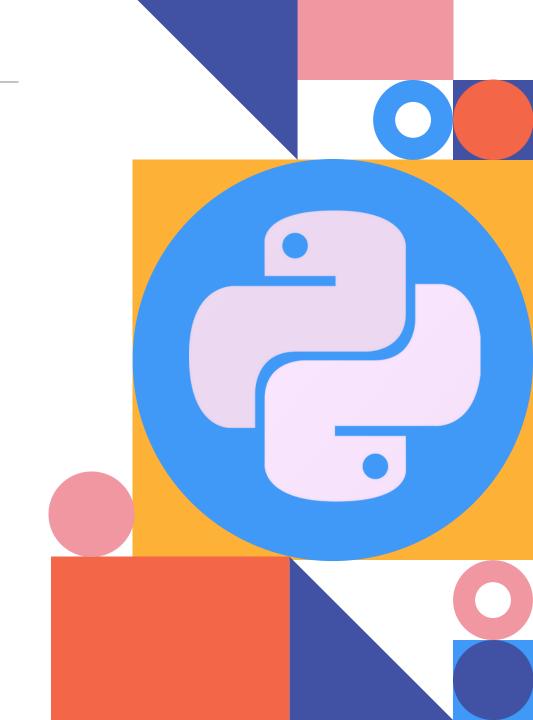
2023 Data Science Final Project

Yan-Fu Kuo

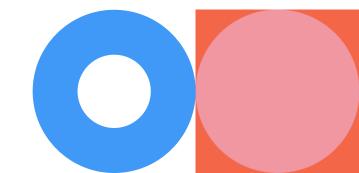
Dept. of Biomechatronics Engineering National Taiwan University



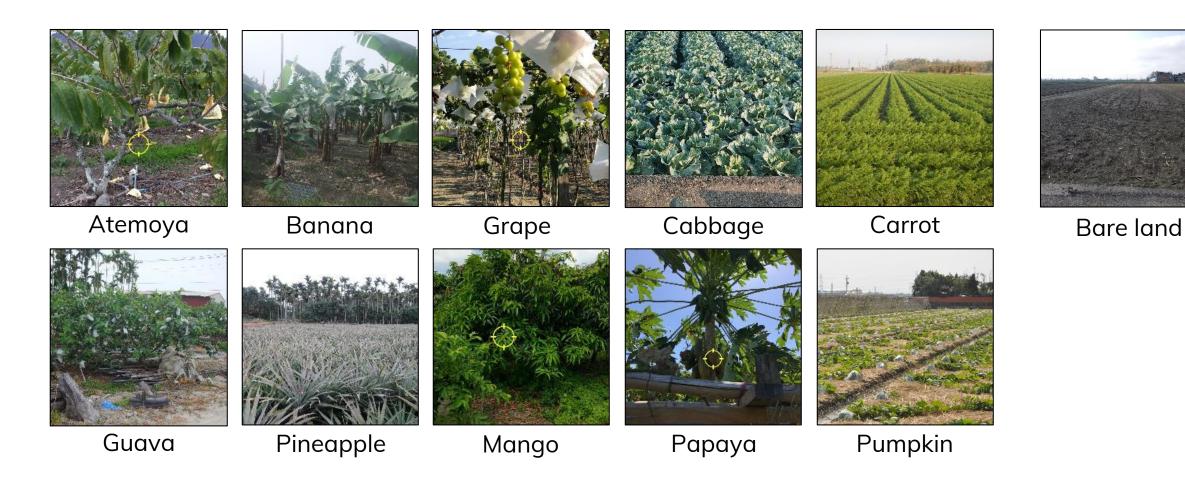


Crop Type Identification

- Identify the crops in images.
- The dataset includes 10 types of crops and bare land.
- Each class has 300 images (224 x 224).



Dataset



Requirements

Basic

- Splitting the images into training and testing dataset using a custom ratio
- Implementing a training loop using PyTorch
- Analyzing training results with a confusion matrix
- Evaluating the model's performance on a separate test dataset
- Explaining each line of code as much as you can

Advanced

- Using data augmentation
- Using regularization



Submission

YourStudentID.zip

Notice:

- Each team member has to submit the aforementioned files.
- Do NOT upload the dataset.

Assessment (12%)

Accuracy: 4% (see the right table)

• Report: 4%

• Presentation: 4%

Accuracy	Score
80%	1.0%
85%	2.0%
87%	2.5%
90%	3.0%
92%	3.5%
95%	4.0%

