Final Project Report

Motivation and Objective (Problem, Challenge) :

Our model will detect plant disease in early stages by their images. Now we have dataset from kaggle (<https://www.kaggle.com/datasets/emmarex/plantdisease>). Here different type of the vegetables, fruits, flowers, with healthy ones and with some afflictions. Goal is that we need to build a model, which can classify between healthy and diseased crop leaves and also if the crop have any disease, predict which disease is it

Related work and originality:

Design architecture:

Convolutional neural network with 6 major layers

Detailed algorithm or functions:

We decided to make with multiple convolutional layers. Layers consist Conv2d, Batch Normalization, Max Pooling and Dropout (for lowering the overfitting). We used Max Pooling 3 times since the images are too small.

Coding:

plant-disease-detection-using-keras.ipynb

Results and performance evaluation:

we got 91.4% of accuracy, *matrix*

Conclusion:

References

Roles of members: