

IDENTIFICATION OF PLANT DISEASE IN GRAPE LEAF IMAGES USING MOBILENETV2 ARCHITECTURE

ABSTRACT

Grape vines are starting to spread in Indonesia due to favorable soil and climate conditions that can produce optimal fruit production. A plant will not be separated from the name pests and diseases that become obstacles in the growth and development of a plant. As with grape vines that are very susceptible to disease attacks where this disease can be recognized from the spots found on the leaves. Examples of diseases on grapevines are black rot, esca disease, and leaf blight. Diseases that attack grape leaves have diverse characteristics, making it difficult for grape farmers to identify these diseases. The purpose of this research is to create a system that can identify plant diseases in grape leaf images. This identification is done using MobileNetV2 architecture to test the accuracy and performance using Deep Learning. Based on the results of the research that has been done, using the MobileNetV2 architecture model has a good accuracy value with an accuracy value for training of 97.74% and 98.44% for validation.

Keywords: *Grape Leaf Disease, MobileNetV2, Python, Deep Learning.*

(xii + 48 Pages + attachments)

Bibliography (1996 – 2022)