

Image recognition of flower types using VGG16 in Deep Learning

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Abstract: This study focuses on developing a flower image recognition system based on deep neural networks (Deep Learning) using the VGG16 model. The practical context demands high accuracy in classifying and identifying flower species, contributing to various applications such as automated agriculture, environmental monitoring, and tourism. The objective of the research is to build an efficient system capable of accurately recognizing the majority of flower species through deep learning. The method involves applying the pre-trained VGG16 network architecture to fine-tune it for the specific task and conducting experiments to evaluate performance. The expected results will confirm the practical applicability of the research in improving existing image classification systems.

Keywords: Image recognition, VGG16, Deep Learning, Flowers, Classification