Model Development Phase

Date	14 July 2024
Team ID	SWTID1720085076
Project Title	Rice Type Classification using CNN
Maximum Marks	5 Marks

Model Selection Report

In the model selection report for future deep learning and computer vision projects, various architectures, such as CNNs or RNNs, will be evaluated. Factors such as performance, complexity, and computational requirements will be considered to determine the most suitable model for the task at hand.

Model Selection Report:

Model	Description
Model 1 MobileNET	MobileNet is a lightweight, efficient convolutional neural network (CNN) architecture designed for mobile and embedded vision applications. It uses depthwise separable convolutions to reduce the number of parameters and computational cost compared to standard convolutional networks, making it ideal for devices with limited resources.
Model 2 CGGNET	CGGNet (Custom Generative and Generalizable Network) is a hypothetical advanced CNN architecture tailored for highly specialized image recognition tasks. It combines the strengths of generative models and traditional convolutional networks to achieve superior generalization and accuracy on custom datasets.

Model 3 AlexNET	AlexNet is a pioneering deep convolutional neural network architecture that significantly advanced the field of image classification. Introduced in 2012, it won the ImageNet Large Scale Visual Recognition Challenge (ILSVRC) with a substantial margin over the runner-up, demonstrating the power of deep learning.