

Model Development Phase Template

Date	27 June 2024
Team ID	SWTID1720428909
Project Title	Vitamin Vision: Unveiling the Spectrum of Nutrient Detectionby56
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
CNN: VGG19	VGG19 is an ideal model for vitamin deficiency detection due to its balanced performance, moderate complexity, and manageable computational requirements. Its 19-layer deep architecture allows for effective feature extraction, capturing detailed patterns in images of body parts exhibiting deficiency symptoms. Compared to more complex models, VGG19 offers a good trade-off between accuracy and computational demand, making it suitable for projects with limited resources. Its relatively straightforward structure and pre-trained weights on large datasets like ImageNet further enhance its usability and performance in transfer learning scenarios, ensuring robust and accurate vitamin deficiency detection.