Model Optimization and Tuning Phase Template

Date	20 March 2025
Team ID	739798
Project Title	VirtualEye – Lifeguard For Active Swimming Drowning Detection
Maximum Marks	10 Marks

Model Optimization and Tuning Phase

The Model Optimization and Tuning Phase involves refining neural network models for peak performance. It includes optimized model code, fine-tuning hyperparameters, comparing performance metrics, and justifying the final model selection for enhanced predictive accuracy and efficiency.

Hyperparameter Tuning Documentation (8 Marks):

Model	Tuned Hyperparameters
Model 1	-

Final Model Selection Justification (2 Marks):

Final Model	Reasoning
Model 1	Early stopping is frequently used in neural networks to ensure that the model doesn't overfit when learning from diverse and sometimes noisy data.