

Model Development Phase Template

Date	5 Oct 2024
Team ID	724803
Project Title	Railway Sentry: Detecting Workers on Railway Tracks using YOLO V9
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
YOLOv9s	YOLOv9s is an advanced variant in the YOLO (You Only Look Once) family, optimized for speed and accuracy in object detection tasks. It employs enhanced architectural modifications and improved feature extraction, allowing for high-performance detection with faster inference times. YOLOv9s is particularly suitable for real-time applications on edge devices.