Model Development Phase Template

Date	5 Oct 2024
Team ID	team-739715
Project Title	Real-time Bone Fracture Detection with YOLO-V8 Using X-ray Images
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
YOLOv8l	The **YOLOv8l** model is a large variant of the YOLOv8 series, designed for high-accuracy object detection tasks. Its deeper architecture and increased parameters allow it to detect intricate patterns and subtle features, making it ideal for applications like bone fracture detection in X-ray images. The model offers excellent precision and recall, handling high-resolution data effectively. While it requires more computational resources than smaller versions, it delivers superior performance in scenarios where accuracy is paramount, such as medical imaging and other critical detection tasks.