Project Initialization and Planning Phase

Date	20 Sep 2024
Team ID	724803
Project Name	Railway Sentry: Detecting Workers on Railway Tracks using YOLO V9
Maximum Marks	3 Marks

Define Problem Statements (Customer Problem Statement Template):

Railway maintenance and construction workers often perform tasks on or near active railway tracks, exposing them to the risk of oncoming trains and potential accidents. Ensuring worker safety is paramount but challenging with traditional monitoring systems that rely heavily on human surveillance, which can be prone to errors and delays. Railway Sentry aims to develop an advanced, real-time AI-based detection system that leverages YOLO V9 (You Only Look Once, Version 9) to automatically identify and track the presence of workers on railway tracks.
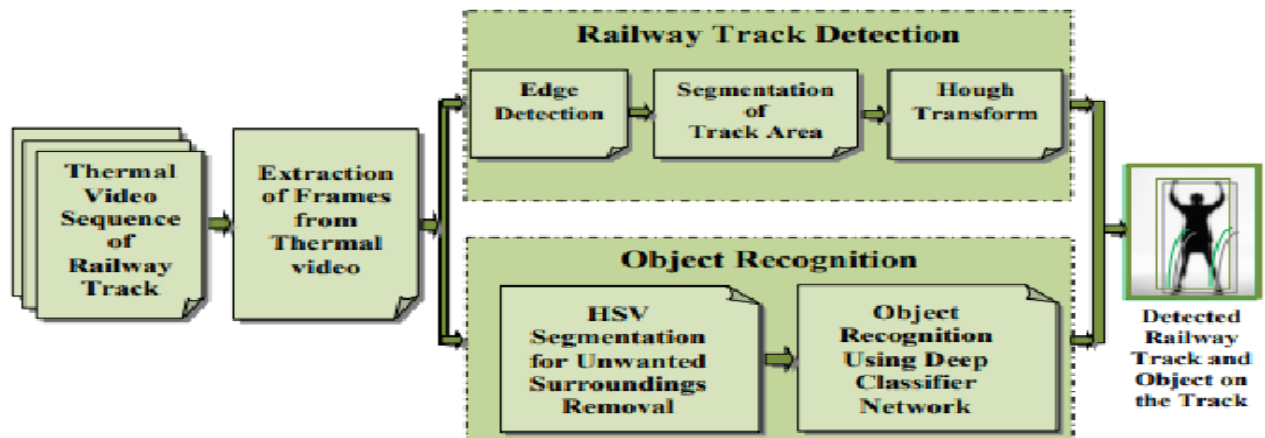
Example:

Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
PS-1	I want to know whether workers are present on railway track or not	Save workers on railway track when train is about to come on the track	I couldn't find where and how many are their	Need to save workers lives	Worried