

Project Design Phase-I

Proposed Solution

Template

Date	21 October 2022
Team ID	PNT2022TMID09657
Project Name	Project - Early forest fire detection System
Maximum marks	2 Marks

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

S/no	Parameter	Description
•	Problem Statement (Problem to be solved)	A support vector machine-based system for predicting the risk of forest fires is provided. The system uses historical weather data to forecast the likelihood of a fire on a given day.
•	Idea / Solution description	Based on the still photos or the video input from the drone cameras, use computer vision techniques for the recognition and detection of smoke or fire.
•	Novelty / Uniqueness	Real-time computer programmes can quickly identify forest fires before they spread to wider areas.
•	Impact on society	Destroyed homes and businesses, cut electricity, mobile and land telephone lines, and blocked roads and railway lines.
•	Business Model (Revenue Model)	Python was used to implement the suggested technique on a Core i3 or higher computer (CPU and 4GB RAM.)
•	Scalability of the Solution	Smoke detection from satellite and ground cameras is made possible by computer vision models.