Project Design Phase – I

Proposed Solution

Date	03 October 2022
Team ID	PNT2022TMID17409
Project Name	Emerging Methods for Early Detection of Forest Fires
Maximum Marks	2 Marks

Proposed System:

S/no	Parameter	Description
1.	Problem Statement (Problem to be solved)	A forest fire risk prediction algorithm, based on support vector machines, is presented. The algorithm depends on previous weather conditions in order to predict the fire hazard level of a day.
2.	Idea / Solution description	Use computer vision methods for recognition and detection of smoke or fire, based on the still images or the video input from the drone cameras.
3.	Novelty / Uniqueness	Real time computer program detects forest fire in earliest before it spread to larger area.
4.	Impact on society	Blocked roads and railway lines, electricity, mobile and land telephone lines cut, destruction of homes and industries.
5.	Business Model (Revenue Model)	The proposed method was implemented using the Python programming language on a Core i3 or greater (CPU and 4GB RAM.)
6.	Scalability of the Solution	Computer vision models enable land cover classification and smoke detection from satellite and ground cameras