Project Design Phase-I
Proposed Solution Template

Date	03 October 2022
Team ID	PNT2022TMID26119
Project Name	Project - Emerging methods for early detection of forest fires.
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	There is an immense resource available in the forest. Due to the forest fires we lose those immense resources . So it is necessary to detect forest fire before happening. But it is difficult to detect forest fire due to its larger area.
2.	Idea / Solution description	In order to solve the above problem we can make use of artificial intelligence and video surveillance systems to detect and alarm before the fire is emerging.
3.	Novelty / Uniqueness	Due to the complex background and large Wildfire room image, sure wildfires pose difficulties in the identification process. Applying convolutional neural network (CNN) technology to image recognition can reduce visual impairment and randomness to a large extent in the feature extraction process and theoretically extract deeper features that could greatly improve the accuracy of flame image recognition.
4.	Social Impact / Customer Satisfaction	Fire detection system prevent huge loss of flora and fauna and people who reside in the forest. The emission of green house gas is reduced.
5.	Business Model (Revenue Model)	Subscription fees and advertising will be the income source for this model . We can also provide the entire system with the hardware by keeping a margin and making income out of it too.
6.	Scalability of the Solution	This model improves its accuracy by self learning while it performs with real life data. Which in turn works with high accuracy , reducing green house gas emissions and saving the lives of flora and fauna.