

Project Design Phase-I

Date	29 September 2022
Team ID	PNT2022TMID39552
Project Name	Emerging Methods for Early Detection of Forest Fires.

Proposed Solution

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Forest Fire Due To Lightning, Human Error, Volcanos, Rising temperatures, a key indicator of climate change, evaporate more moisture from the ground, drying out the soil, and making vegetation more flammable.
2.	Idea / Solution description	Forest Fire can be detected by using convolutional neural networks and artificial intelligence .The main ideation is that it is build by using satellite image preprocessing and video analysis.
3.	Novelty / Uniqueness	The most interesting and unique feature of this system is its capability of ingesting and processing different instrument data, AVHRR and ATSR, into standard fire alerts integrated into an operational environment, benefiting from the synergy of the two instruments.
4.	Social Impact / Customer Satisfaction	By using this system it reduces global warming which causes major climatic changes and prevents wild animals and birds from danger by this method the smoke due to fire is also prevented which causes various effects on Nature.
5.	Business Model (Revenue Model)	This system is used to predict the forest fire at the early stage, prevent the wild lives from fire and prevents global warming. This model is more reliable and can produce accurate detection of forest fire.
6.	Scalability of the Solution	Compared to other methods satellite detection is more efficient and is accurate it can convert large area by using image processing and video analysis by this advantages this method has more benefits.