

Project Design Phase-I
Proposed Solution Template

Date	23 September 2022
Team ID	PNT2022TMID30190
Project Name	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)	To Predict the Forest fire at early stage and send an alert.
2.	Idea / Solution description	Forest fires are a big issue, every year millions of trees burn down due to forest fires. To tackle this, A model which can detect forest fires by using the user's video feed. It converts the user's video into frames and sends it through the model. This model is already trained enough to detect and distinguish between fire and no fire the model's learning process is configured by Machine learning. After the frames are sent to the model, it goes through multiple layers that help identify the model if there is a fire in the frame. If detected an alert is issued immediately.
3.	Novelty / Uniqueness	Prediction is completely autonomous and rate of prediction and analyzation is much efficient. It is completely economical.
4.	Social Impact / Customer Satisfaction	Using this model can help prevent forest fires and it can help keep the forest under surveillance by also detecting potential forest fires. An alert can be issued and everyone can be evacuated safely.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> • Key Partners-Forest Authorities and forest fire department. • Activities- Consistent monitoring of the forest through cameras. • Key resources - Maintenance of the technology. • Value proposition-low price. • Cost structure- Technology platform.
6.	Scalability of the Solution	This model can be accessed by all authorities in need of information about the forest fires.