PROJECT DESIGN PHASE-I
EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES
PROPOSED SOLUTION TEMPLATE

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	• Forest fires are a major environmental issue, creating economic and ecological damage while endangering human lives. • To find forest fire detection and prediction approaches, with the goal of informing the local fire authorities.
2.	Idea / Solution description	• The user interacts with a web camera to read the video. • Once the input image from the video frame is sent to the model, if the fire is detected, it is showcased on the console, and alerting sound will be generated and an alert message will be sent to the Authorities. • To achieve this, we classify images using a Convolutional Neural Network and use other open CV tools.
3.	Novelty / Uniqueness	• Decreasing the response time of total system i.e increasing the processing speed of the model.
4.	Social Impact / Customer Satisfaction	• Tribal people who live in forest and forest department authorities are benefited. • Saving the most essential Forest cover and the wildlife.
5.	Business Model (Revenue Model)	• We can generate revenue by Supply chain, power & supply, Fires stations and government by providing services.
6.	Scalability of the Solution	• We can further install smoke detecting sensors in highy prone areas to increase accuracy of fire detection. • Attaching GPS tracking to each cameras to find the exact location of fires.