Project Design Phase-I
Proposed Solution Template

Date	28 September 2022
Team ID	PNT2022TMID19286
Project Name	Project-Early detection of forest fire using deep learning

Proposed Solution:

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	1. Forest fires are a major environmental issue, creating economic and ecological damage while endangering human lives. 2. It is difficult to predict and detect Forest Fire in a sparsely populated forest area. 3. So, it is necessary to detect the fire in an early stage to control it.
2.	Idea / Solution description	1.The model will detect forest fires automatically with the help of image processing using deep learning and with the use of satellite image data to observe, detect and report fire events.
3.	Novelty / Uniqueness	When the fire is detected, the station will get a notification via message and an alarm system will be activated automatically to alert the user.
4.	Social Impact / Customer Satisfaction	1. This can reduce the forest fire in the beginning stage, by alerting users. 2. The user can also use this as a surveillance 3.Camera to monitor the forest. Saving the most essential Forest cover.
5.	Business Model (Revenue Model)	1. This application will be available in a subscription-based model. 2. Supply chain, power & supply, Fire stations, and government by providing services.
6.	Scalability of the Solution	1.This application can monitor different places simultaneously and can detect fire accurately 2.This application can handle a large number of users and data simultaneously.