PROJECT DESIGN
PHASE-I

PROPOSED SOLUTION

Date	24 September 2022
Team ID	PNT2022TMID00088
Project Name	Project –

PROPOSED SOLUTION TEMPLATE:

S.No.	Parameter	Description
1.	**PROBLEM STATEMENT**	• The first of these solutions involves the use of unmanned aerial vehicles (UAVs) with specialized cameras. • Several different scenarios for the possible use of the drones for forest fire detection will be presented and analysed, including a solution with the use of a combination between a fixed-wind and a rotary-wing UAVs
2.	**IDEA / SOLUTION DESCRIPTION**	• This project uses self-built dataset containing video frames with fire. The data is then preprocessed and use the CNN to build a machine learning model. • The test set of the dataset is given as input for validating the algorithm and experiments are noted. • Alarm will start buffer if forest fire occurs to inform to local authorities regards the forest fire.
3.	**NOVELTY**	• Providing alerts on fire detection from forest fire. • How to detect fire in efficient way . Early Detection Of Fire Reduces The Loss Of Nature.
4.	**SOCIAL IMPACT**	• Because of earlier prediction loses of life destruction of various environmental resources can be avoided. • By Detecting fire quickly and accurately this system can limit the emission of toxic products created by combustion as well as global-warming gases produced by the fire itself.
5.	**BUSINESS MODEL**	• The software platform to provide the fully autonomous processing of data received from the camera of UAV to obtain live feed in web- App.
6.	**FEASIBILITY OF IDEA**	• It is compatible with UAV camera. The algorithm shows great promise in adapting to various environment • It is possible to prevent damage and loss due to random fire accidents by making use of the Surveillance camera systems.