

**Project Design Phase-I**  
**Proposed Solution**

Date	06 October 2022
Team ID	PNT2022TMID17906
Project Name	Project – Natural Disaster Intensity Analysis and Classification using Artificial Intelligence.
Maximum Marks	2 Marks

**Proposed Solution:**

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To develop a multilayered deep convolutional neural network model that classifies the natural disaster and tells the intensity of disaster of natural. The model uses an integrated webcam to capture the video frame and the video frame is compared with the pre-trained model and the type of disaster is identified and showcased on the OpenCV window.
2.	Idea / Solution description	Detect the natural disaster in the footage, classify the disaster into pre-defined disaster buckets, built a user-friendly application to integrate the AI to analyse the intensity.
3.	Novelty / Uniqueness	The model uses an integrated webcam to capture a video frame and the model identifies the type of disaster.
4.	Social Impact / Customer Satisfaction	Precautionary measures can be carried out with this model as it analyses the intensity of the disaster. Lots of lives will be saved.
5.	Business Model (Revenue Model)	Companies can save their goods from transporting by identifying the disaster.
6.	Scalability of the Solution	This can be used in any situation like uninhabited areas as images are used as input, even mobile phone camera can be used to feed the model with the image and analyse the disaster. Even low-quality images can also used to identify the disaster.