

## Project Design Phase-I

### Proposed Solution Template

Date	02/10/2022
Team ID	PNT2022TMID33170
Project Name	Natural Disasters Intensity Analysis And Classification
Maximum Marks	2 Marks

#### Proposed Solution Template:

S.NO	PARAMETER	DESCRIPTION
1.	Problem Statement (Problem to be solved)	Natural Disasters Intensity Analysis and Classification
2.	Idea / Solution description	Disaster can be caused by naturally occurring events. Due to the complex and imbalanced structures of images it is difficult to find the disaster. Many deep learning techniques have been applied by various researchers to detect and classify natural disasters to overcome losses in ecosystems
3.	Novelty / Uniqueness	we developed a multilayered deep convolutional neural network model that classifies the natural disaster and tells the intensity of disaster
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"><li>Natural disaster drastically affect human lives and economic situations.</li><li>With the help of a neural network, it is possible to predict floods and save the masses from the disaster.</li><li>Locating the victims in a short time is complex task. Convolutional neural networks make it possible to help rescue team to locate the</li></ul>

		location of victims with help of collected information's from images acquired from the unmanned aerial vehicle.
5.	Model (Revenue Model)	Natural Disasters Intensity Analysis and Classification with parameters involved in it.
		<pre> graph TD     VideoFeed((Video Feed)) --- Model((Model))     DLAlgorithm((DL Algorithm)) --- Model     Model --- Prediction((Prediction))     DLAlgorithm --- Evaluation((Evaluation))     Evaluation --- Prediction     TrainTestData((Train / Test Data)) --- DataProcessing((Data Processing - image data))     DataProcessing --- TrainTestData </pre>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>■ Many researchers have attempted to use different deep learning methods for detection of natural disasters.</li> <li>■ Cost will be reasonable and efficient monitoring.</li> </ul>

