Ideation Phase

Define the Problem Statements

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| Date | 19 September 2022 |
| Team ID | PNT2022TMID28517 |
| Project Name | Natural Disaster Intensity Analysis And  Classification Using Artificial Intelligence |
| Maximum Marks | 2 Marks |

# Problem Statement:

* Natural Disaster one of most inevitable disasters, it can be caused by naturally occurring events such as earthquakes, cyclones, floods, and wildfires.
* A natural disaster can cause loss of life or damage property like buildings will collapse due to seismological effects, and typically

leaves some economic damage in its wake. diseases/viruses spread and sometimes natural disasters can devastate nations.

* Many deep learning techniques have been applied by various researchers to detect and classify natural disasters to overcome losses in ecosystems, but detection of natural disasters still faces issues due to the complex and imbalanced structures of images.
* The defined problem statements lead to focus on building a multilayered deep Convolutional Neural Network (CNN) model that

classifies the natural disaster and monitors the intensity of its occurrence.

* For detection, an integrated webcam is used to capture the video frame and is compared with the pre-trained model and the type of disaster is

identified and showcased on the user interface.

# Example:



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| **Problem**  **Statement (PS)** | **I am**  **(Customer)** | **I’m trying to** | **But** | **Because** | **Which makes me feel** |
| PS-1 | A forest ranger | To identify the intensity of the forest fire, so that I can prepare for rescue machines accordingly | It takes lot of  time. | It requires lot of  calculations. | Frustrated |
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