PROJECT OBJECTIVES

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Team ID	PNT2022TMID27558
Project Name	Project - Natural Disasters Intensity Analysis And Classification Using Artificial intelligence

Natural Disasters take humans by surprise. It disturbs our normal life cycle and gives life threats. It destructs infrastructure such as hospitals, educaaonal insatuaons and in most cases life too. Every year over 60,000 lives are lost because of climate change. There are more and more natural disaster every year ame to detect them has remained minimal people oten only have seconds of warning before disaster strikes and in some cases there is not even any warning at all.

With the help of AI, we might be able to predict these disasters farther ahead.
We are able to predict the natural disaster through a technique called Machine Learning. Machine learning uses neural network inspired by those in the human brain in order to learn and make decision. It does this by taking large sets of data and buying to find pattern. It uses many neural network layer to make a decision after many attempt it will take right decision.

In this project we developed 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 pretrained model and the type of disaster is identified and showcased on the OpenCV window.

Main objective of disaster management:

- To predict the upcoming disaster
- To rehabilitate people to safer places.
- Ensuring adequate amount of survival kits.

The disaster management technique helps people to give warning in prior. It helps people to reduce infrastructural and livelihood damages.