Project Design Phase-I
Solution Architecture

Date	14 November 2022
Team ID	PNT2022TMID52102
Project Name	Project-Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	4 Marks

Solution Architecture:

Solution architecture is a complex process – with many sub-processes – that bridges the gap between business problems and technology solutions. Its goals are to:

- Many deep learning techniques have been applied by various researchers to detect and classify natural disasters to overcome losses in ecosystems

- detection of natural disasters still faces issues due to the complex and imbalanced structures of images..

- To tackle this problem, 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 Pre-trained model and the type of disaster is identified and showcased on the OpenCV window

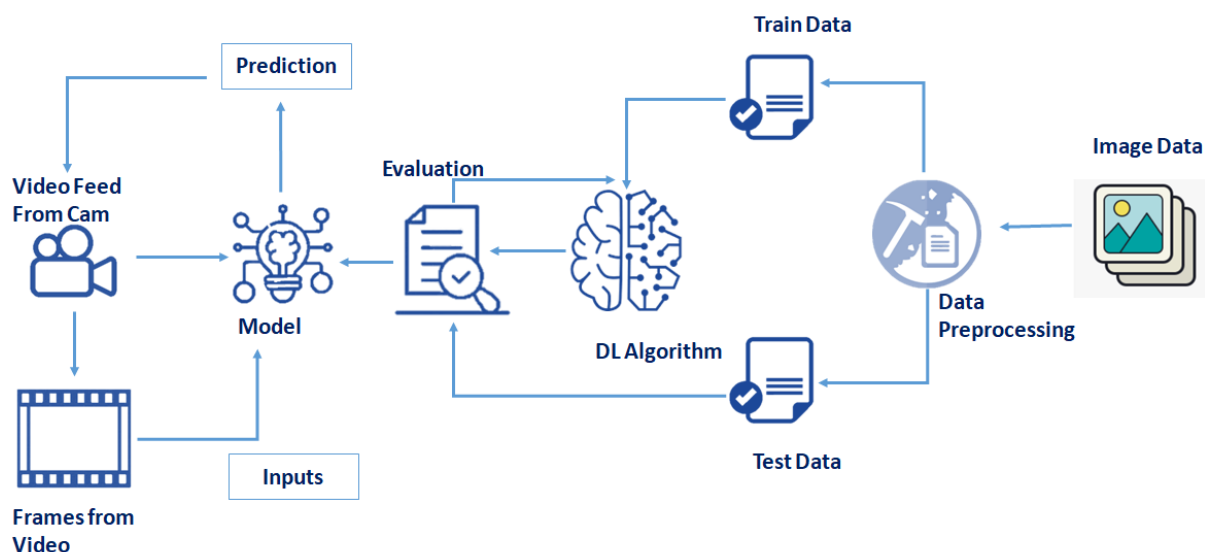## Example - Solution Architecture Diagram:

Figure 1: Architecture and Natural Disasters Intensity Analysis and Classification using Artificial Intelligence