Project Flow

Date	23 August 2022
Team ID	PNT2022TMID52367
Project Name	Natural Disasters Intensity Analysis and Classification Using Artificial Intelligence

- The user interacts with the UI (User Interface) and give the image as input.
- Then the input image is then pass to our flask application,
- And finally with the help of the model which we build we will classify the result and showcase it on the UI.

To accomplish this, we have to complete all the activities and tasks listed below

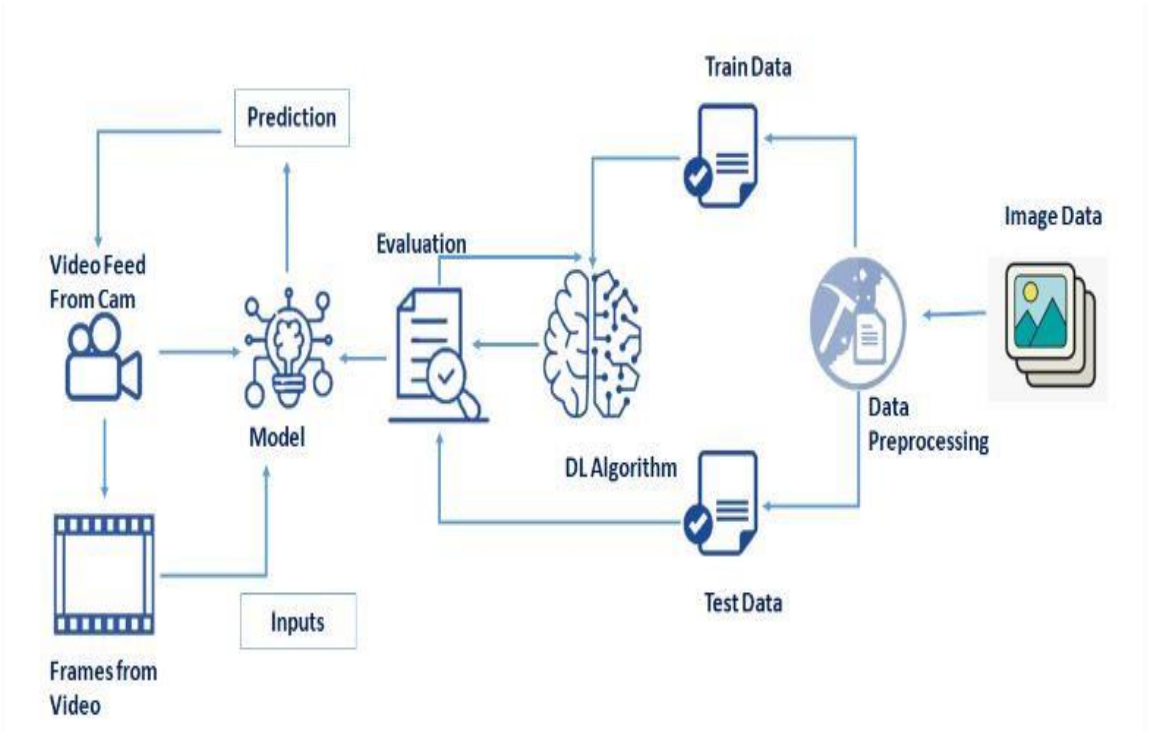
- Data Collection.
- Collect the dataset or create the dataset
- Data Pre-processing.
- Import the ImageDataGenerator library
- Configure ImageDataGenerator class
- Apply ImageDataGenerator functionality to Trainset and Testset
- Model Building
- Import the model building Libraries
- Initializing the model
- Adding Input Layer
- Adding Hidden Layer
- Adding Output Layer
- Configure the Learning Process
- Training and testing the model
- Save the Model
- Application Building
- Create an HTML file
- Build Python Code

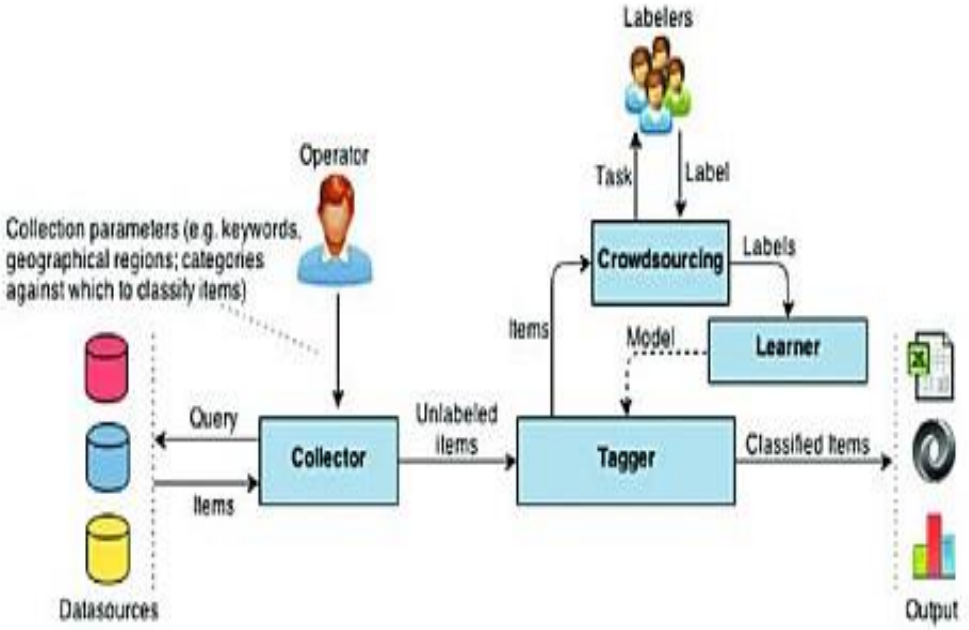
Project Flow

- The user interacts with the UI (User Interface) to open the integrated webcam.
- The video frames are captured and analyzed by the model which is integrated with flask application.
- Once model analyses the video frames, the prediction is showcased on the UI and OpenCV window

To accomplish this, we have to complete all the activities and tasks listed below

- Data Collection.
    - Collect the dataset or Create the dataset
- Data Preprocessing.
    - Import the ImageDataGenerator library
    - Configure ImageDataGenerator class
    - ApplyImageDataGenerator functionality to Trainset and Testset
- Model Building
    - Import the model building Libraries




Labelers
Operator
Task
Label
Collection parameters (e.g. keywords, geographical regions; categories against which to classify items)
Crowdsourcing
Labels
Items
Model
Learner
Query
Collector
Unlabeled items
Tagger
Classified Items
Items
Datasources
Output