Project Flow

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Team ID	PNT2022TMID38863
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

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  - Import the model building Libraries

Labelers

Task Label

Crowdsourcing Labels

Operator

Collection parameters (e.g. keywords, geographical regions; categories against which to classify items)

Items

Model Learner

Query Unlabeled items

Collector Tagger Classified items

Items

Datasources Output