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NATURAL DISASTERS INTENSITY ANALYSIS AND CLASSIFICATION USING ARTIFICIAL INTELLIGENCE

INTRODUCTION

1.1 PROJECT OVERVIEW

Natural disasters not only disturb the human ecological system but also destroy the properties and critical infrastructures of human societies and even lead to permanent change in the ecosystem. Disaster can be caused by naturally occurring events such as earthquakes, cyclones, floods, and wildfires. 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. To tackle this problem, we propose a multilayered deep convolutional neural network.

1.2 Purpose

Natural disasters are inevitable, and the occurrence of disasters dras cally affects the economy, ecosystem and human life. Buildings collapse, ailments spread and some mes natural disasters such as tsunamis, earthquakes, and forest fires can devastate na ons. When earthquakes occur, millions of buildings collapse due to seismological effects [1]. Many machine learning approaches have been used for wildfire predic ons since the 1990s. A recent study used a machine learning approach in Italy. This study used the random forest technique for suscep bility mapping of wildfire . Floods are the most devasta ng natural disaster, damaging proper es, human lives and infrastructures. To map flood suscep bility, an

assembled machine learning technique based on random forest (RF), random subspace (RS) and support vector machine (SVM) was used [3]. As the popula on is growing rapidly, people need to acquire land to live on, and as a result the ecosystem is disturbed horrifically, which causes global warming and increases the number of natural disasters. Popula ons in underdeveloped countries cannot afford damages disasters cause to infrastructures. The a ermath of disasters leaves the humans in miserable situa ons, and some mes the devasta ng effects cannot be detected; addi onally, rescue opera ons cannot take place in most of the places and vic ms are unable to be iden fied due to geographical factors of the different areas. Disasters such as forest fires spread rapidly in dense areas, so firefigh ng is difficult to carry out; in this case, development of the strategy to predict such circumstances is crucial so that such disasters can be prevented beforehand.

2. LITERATURE SURVEY

2.1 Exis ng system

Disaster can be caused by naturally occurring events such as earthquakes, cyclones, floods, and wildfires. Many deep learning techniques have been applied by various researchers to detect and classify natural disasters to overcome losses in ecosystems, but detec on of natural disasters s ll faces issues due to the complex and imbalanced structures of images.

2.2 REFERENCES

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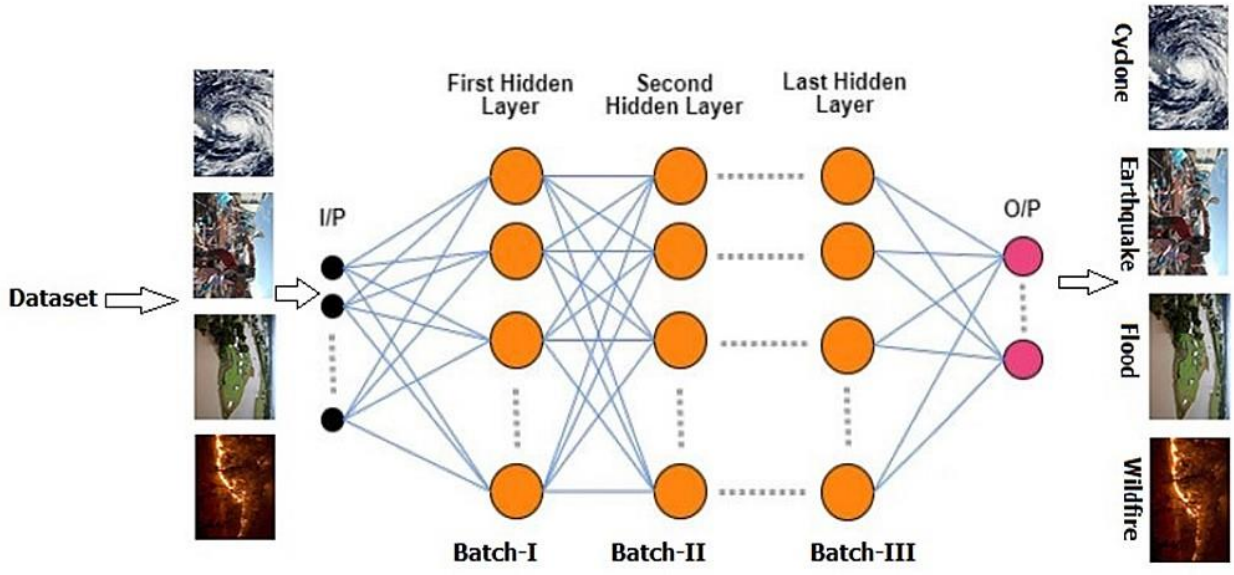
2.3 Problem statement defini on

The natural disaster intensity analysis and classifica on is based on mul spectral images using a mul layered deep convolu onal neural network. Moreover, this method consists of two blocks of a convolu onal neural network. The first block detects a natural disaster occurring and the second one defines the intensity type of the natural disaster. Addi onally, the first block consists of three mini convolu onal blocks with four layers each, including an image input and fully connected layers. On the other hand, the second block also consists of three miniconvolu onal blocks with two layers each and includes an image input layer and is fully connected.

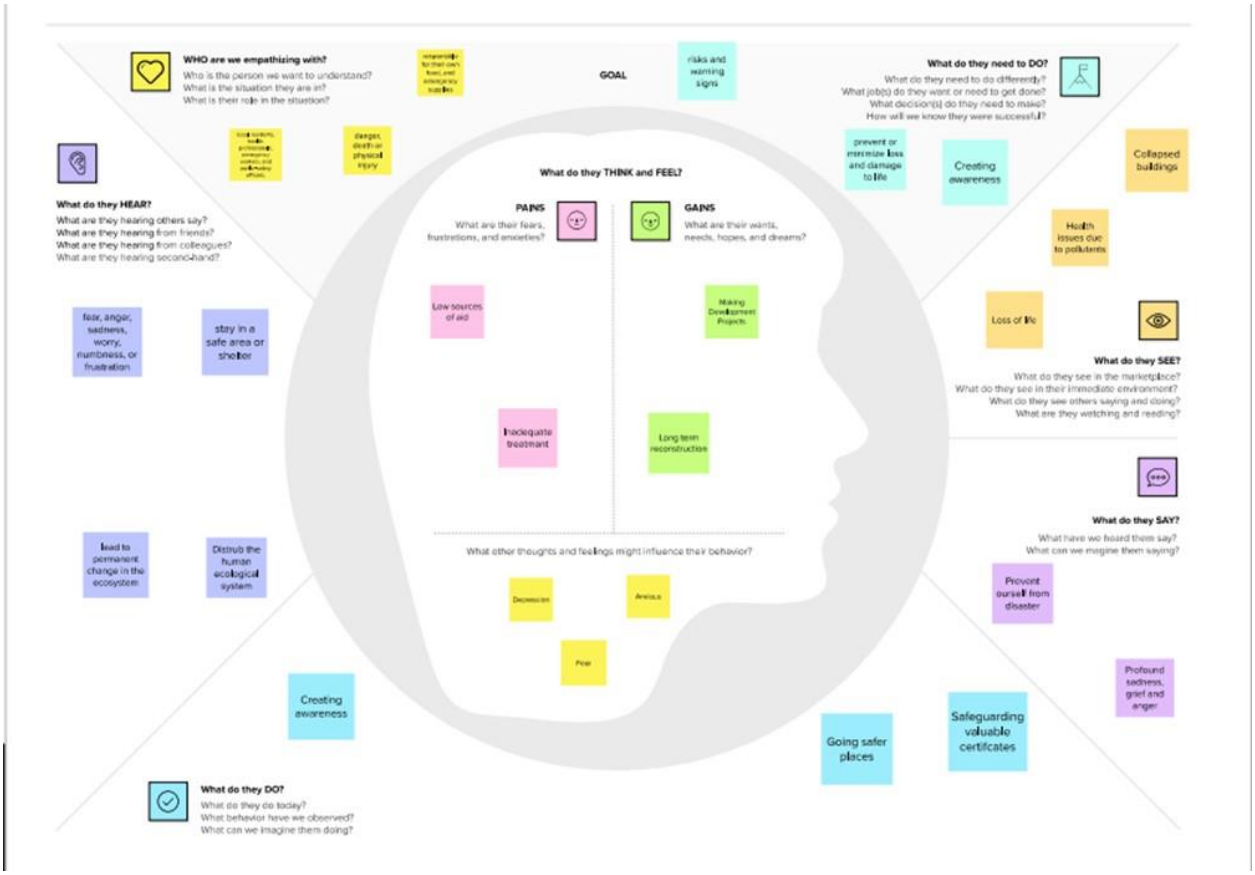


3. IDEATION & PROPOSED SOLUTION

3.1 Empathy map canvas

An empathy map is an effec ve visualiza on template that helps analyze the behavior and emo ons of customers and users. Empathy maps not only detect the behaviors but highlight possible mediums for brands to communicate with their customers in a be er way. Whether this is changing their outreach strategies, user experience, or messaging, an empathy map aims to view a given interac on through the customer's eyes and improve it from their perspec ve.

Empathy maps are beneficial in uni ng a team to address the core concerns of the customer and ensuring that this process both documents their frustra ons and provides a consumer-informed solu on.

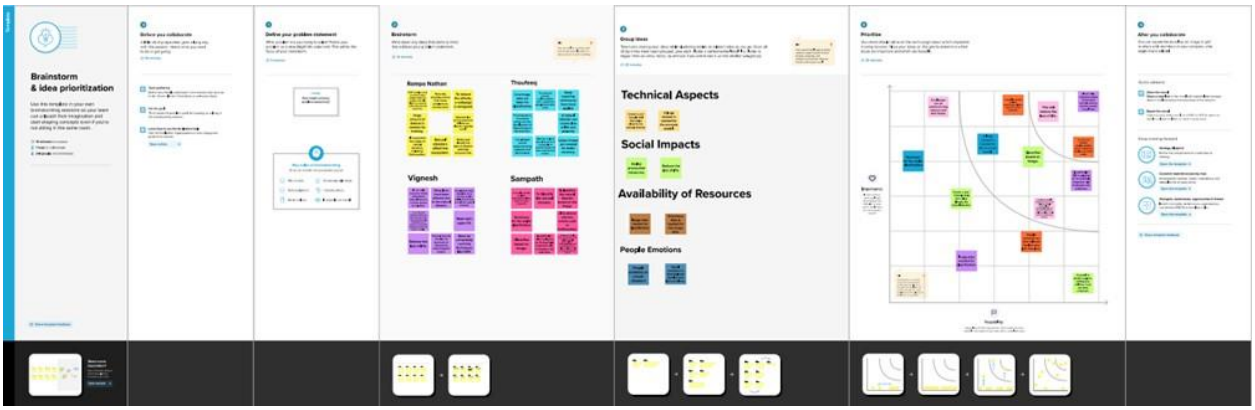


3.2 Brainstorm & Idea Priori za on Template:

Brainstorming provides a free and open environment that encourages everyone within a team to par cipate in the crea ve thinking process that leads to problem solving. Priori zing volume over value, out-of-the-box ideas are welcome and built

upon, and all par cipants are encouraged to collaborate, helping each other develop a rich amount of crea ve solu ons.

Use this template in your own brainstorming sessions so your team can unleash their imagina on and start shaping concepts even if you're not si ng in the same room.



3.3 Proposed solu on

Project team shall fill the following informa on in proposed solu on template.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	To analyse and classify the intensity of the natural disaster using Artificial Intelligence.
2.	Idea / Solution description	To propose a Convolutional Neural Network model for detection and classification of disaster intensity.
3.	Novelty / Uniqueness	The proposed model works in two blocks of convolutional neural network.
4.	Social Impact / Customer Satisfaction	Provides better accuracy in analysing intensities which enables better prediction of disaster
5.	Business Model (Revenue Model)	The model works efficiently and effectively with better accuracy for customers.
6.	Scalability of the Solution	Enhances collaboration between current and past initiatives and provides better accuracy and prediction. The used algorithms and CNN model made the analysis and classification easier.

3.4 Problem solu on fit

The Problem-Solu on Fit simply means that you have found a problem with your customer and that the solu on you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators iden fy behavioral pa erns and recognize what would work and why

Purpose:

Solve complex problems in a way that fits the state of your customers.

Succeed faster and increase your solu on adop on by tapping into exis ng mediums and channels of behavior.

Sharpen your communica on and marke ng strategy with the right triggers and messaging.

Increase touch-points with your company by finding the right problem-behavior fit and building trust by solving frequent annoyances, or urgent or costly problems.

Understand the exis ng situa on in order to improve it for your target group.

4. Requirement Analysis

4.1 Func onal Requirement:

Following are the func onal requirement of the proposed solu on

FR NO	FUNCTIONAL REQUIREMENT	SUB REQUIREMENT
FR-1	User Registra on	Registra on through form Registra on through gmail Registra on through linkedIn
FR-2	User Confirma on	Confirma on via Email Confirma on via OTP
FR-3	User Profile	Personal Details

FR-4	Informa on about weather forecas ng	Helps to determine future climate change
FR-5	Display the forecas ng of the place	Such as Precipita on, Humidity, Wind

4.2 Non-func onal Requirements:

Following are the non-func onal requirements of the proposed solu on.

FR NO.	NON-FUNCTIONAL REQUIREMENTS	DESCRIPTION
NRF-1	Usability	Classifying disasters and prone to it.
NRF-2	Security	User details must be secured.
NRF-3	Reliability	The output procedure should be reliable to the users.

NRF-4	Performance	The system should be able to handle many users without performance deteriora on.
NRF-5	Availability	The system should be accessible to a user at a given point in me.
NRF-6	Scalability	The website pages should load with the total number of simultaneous users.

5.PROJECT PLANNING

5.1 DATA FLOW DIAGRAM

A Data Flow Diagram (DFD) is a traditional visual representationof the information flows within a system. Aneat and clear DFD can depict the right amount of the system requirements graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.

5.3 USER STORIES

Use the below template to list all the user stories for the product.

USER TYPE	FUNCTIONAL REQUIREMENT	USER STORY NIMBER	USER STORY/ TASK	ACCEPTANCE CRITERIA	PRIORITY	RELEASE

Customer(Mobile user)	Registrati on	USN-1	As a user, I can register for the application by entering my email, password, and comfirming my password	I can access my account/ dashboard	High	Sprint-1
		USN-2	As a user, I will receive	I can receive	High	Sprint-1
			confirmati on email once Ihave registered for the application	confirmati on email & click confirm		
		USN-3	As a user, I can register for the application through Gmail		Medium	Sprint-1
	Login	USN-4	As a user, Ican log into the application email & password		High	Sprint-1

	Dashboard					
Customer (Web user)		USN-5	As a user, you can view edit your personal details	I can edit and view my details	Low	Sprint-2
		USN-6	As a user, you can determine future climatic changes	I can check on information about weather forecast	High	Sprint-2
Administrator		USN-7	As a admin you can	I can display	Medium	Sprint-3
			provide or display the requested details form user such as displaying forecasted weather of the place	forecasted details about weather.		

6. PROJECT PLANNING & SCHEDULING

6.1 Sprint Planning & Estimation

TITLE	DESCRIPTION	DATE
Literature Survey & Information Gathering	Literature survey on the selected project & gathering information by referring to technical papers, research publications etc.	16 OCTOBER 2022
Prepare Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	09 OCTOBER 2022
Prepare Problem Statement	Prepare the list of problem statements	09 OCTOBER 2022
Ideation	List them by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.	16 OCTOBER 2022
Proposed Solution	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	10 OCTOBER 2022
Problem Solution Fit	Prepare problem - solution fit document.	10 OCTOBER 2022
Solution Architecture	Prepare a solution architecture document.	11 OCTOBER 2022
Customer Journey	Prepare the user journey maps to understand the user interactions & experiences with the application (entry to exit).	18 OCTOBER 2022
Solution Requirement	Prepare the solution requirement document.	16 OCTOBER 2022
Data Flow Diagrams	Draw the data flow diagrams and submit for review.	18 OCTOBER 2022
Technology Architecture	Prepare the technology architecture diagram.	17 OCTOBER 2022
Prepare Milestone & Activity List	Prepare the milestones & activity list of the project.	7 NOVEMBER 2022
Project Development - Delivery of Sprint-1, 2, 3 & 4	Develop & submit the developed code by testing it.	18 NOVEMBER 2022

7. CODING & SOLUTIONING (Explain the features added in the project along with code)

7.1 FEATURE 1

```
from google.colab import drive
drive.mount('/content/drive')

import numpy as np import
pandas as pd import tensorflow
as tf from tensorflow.keras import layers from tensorflow.keras.models import Sequential from
tensorflow.keras.preprocessing.image import ImageDataGenerator import matplotlib.pyplot as plt

train_datagon=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_r
ange=0.2,horizontal_flip=True) test_datagon=ImageDataGenerator(rescale=1./255)

x_train=train_datagon.flow_from_directory('/content/drive/MyDrive/IBM- PROJECT/dataset/
train_set',target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='categorical')
x_test=test_datagon.flow_from_directory('/content/drive/MyDrive/IBM- PROJECT/dataset/
train_set',target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='categorical')

from tensorflow.keras.layers import Dense,Flatten from

tensorflow.keras.layers import Conv2D,MaxPooling2D

model=Sequential()

model.add(Conv2D(32,(3,3),input_shape=(64,64,3),activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2))) model.add(Conv2D(32,(3,3),activation='relu'))

model.add(MaxPooling2D(pool_size=(2,2))) model.add(Flatten())

model.add(Dense(units=128,activation='relu'))

model.add(Dense(units=4,activation='softmax')) model.summary()

model.compile(optimizer='adam',loss='categorical_crossentropy',metrics

=['accuracy'])
model.save('disaster.h5') model_json=model.to_json()with open("model-bw.json","w")asjson_file:
json_file.write(model_json)

from tensorflow.keras.models import load_model from
tensorflow.keras.preprocessing import image
model=load_model("disaster.h5")
```

```
img=image.load_img('/content/drive/MyDrive/dataset/test_set/
Earthquake/1321.jpg',target_size=(64,64)) x=image.img_to_array(img) x=np.expand_dims(x,axis=0)
pred=model.predict(x)np.argmax(pre d) pred

index=['Cyclone','Earthquake','Flood','Wildfire']

y=np.argmax(model.predict(x),axis=1) print(index[int(y)])
```

7.2 FEATURE 2

home.html

```
<html>
    <head><title>homepage</title>
    <style>
        .Main{ background-color:
            dimgray; justify-content:
            center; align-items:
            center; height:
            100%;
            display:fle x;
        }
        .navbar
        {
            background-color:black;
            color:chartreuse; width:
            100%; height:40
```

```
    px;
}
.navbar ul
{
    display:flex; justify-
    content:flex-end; align-
    content: spacebetween;
    list-style: none; margin-
    top: -10px;
}
.navbar label
{
    font-size:
    25px; marginleft:
    40px; font-weight:
    bold;
} ul
li
{
    width: 15%;
    font-size: 20px;
    font-weight:
    bold;
    margintop:-
    10px;
    font-family: Cambria,Cochin, Georgia, Times,'Times New Roman',serif;
}
li a
{
    text-decoration: none;color:whites
    moke;
}
a:hover
{
      background-color:chartreuse;

    border-radius: 5px;
}
.container
```

```
  {
    width:80%;
    height:80%;
    margin:40px 50px;
    display: flex;
  }
  .disaster
  {
   width:800px; height: 400px;
   margin-left: 15px; box-shadow:-
   1px 0 10px whitesmoke; align-
   items: center; justify-content:
   center; text-align:
   center;
  }
  img{ width:
   250px;
   height:200
   px;
  }
  .title
  { text-align:
   center; color:
   chartreuse;
   font-size:
   25px;
   fontweight:
   bold;
  }
 p{
   text-align: center;
   color:
   whitesmoke; font-
   size:
   15px;

  }
</style>
</head>
<body>
```

```
<nav class="navbar">
    <label>AI BasedNatural-Disaster-Analysis</label> <ul>

        <li><a href="">Home</a></li>
        <li><a href="">Introduction</a></li>
        <li><a href="">Open Web Cam</a></li>
    </ul>

</nav>
<div class="Main">
<div class="container">
<div class="disaster"><img
```
src="
wgKCgkLDRYPDQwMDRsUFRAWIB0iIiAdHx8kKDQsJCYxJx8fLT0tMTU3Ojo6Iys/RD84Qz
Q5OjcBCgoKDQwNGg8PGjclHyU3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3
Nzc3Nzc3Nzc3Nzc3Nzc3N//AABEIAH8AkwMBIgACEQEDEQH/xAAcAAABBQEBAQAAAAA
AAAAAAAAAFAgMEBgcAAQj/xAA9EAACAQIFAgQEBAUDAgcBAAABAgMEEQAFEiExQVE
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O3fCI5Q66eAOffCSyl7G2jtbEUhbN6Y7X74Sw0jTGUJ/bDbOo2X79sJMpI0oth3JxJxQjdiD7n
CSgPJGFqjHfc/thd405H0vfAiFRRjtHthzzYzwALdDjrqei//AC/4xE0V7YQV07nb6YfuvVk+jj/fD
bkXte/64kZ8z/Uduhwr4hk/K33w4IdW62J7YbeKzWYEX9sSKFY1v6MdiK2XIWJE0gv0Bx5iQ
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q9E6SDySGF2F/wAxAN1HX5YgZp4YrZLVLV3x2sARzBiwkNzfpfbt/wAY3CtoKQs0MkyCVj
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Q5LUUuYGeRVUofURImp3B6ITq2APTTiXXZf8RWGWSOONqgbpdj5b5Yr8mhpSgCc

GkyqekpkrhIYpUYFBbcm/Tfoe2DFRlxppI43jHpY+W9rek4frJviNLubsAB8rdv1++Od+a/w8Kg
9/OfW2o3NyeT8/fF2/DJqirzb4FZEVGXUxcXO3AB/tiuV2W31TREXtcoN7784vf4UJSQQSVK
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JlrnVkd5X9bTMCxXtftiF4uzfLPD8Mk6UVPPWSso0aRfe256/bBxDcmT5jRPDTOJNKqotITINt
/sb77DfbA2jzaopZ1khsqKR6RtcAAWuN7bYe8W5t/F8zMqQCKNNSoLern+o98BkJHzx1+PC

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xFE2nz5/wApP5FO/wBx+98ab4hoZmrYqqBwgsYnuvN+G+m/3xRvBeamjzCsyqsKmenlZ6di
wBY6gbA8A7fqcajNaBNVfwugpaGmph5ccJEUer0uQBsTbEWpzWeIp4o0VjmFebRgWYqo3
ZrdgP7d8Jq66qn9JplCmUlSr6h5R5N+Ob4hVeYUlB4jpFzEJEZI3jimbi5K7fWw+2ApjZBCzq1
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ULuLdN8e4UIxbfHY5uj/2Q==""> Cyclone<P>Cyclones are caused by atmospheric disturbances around a low-pressure area distinguished by swift and often destructive air circulation. Cyclones are usually accompanied by violent storms and bad weather.</P>

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V7z xyM2pTnJznANAX8rWbxR24VVMSsQUB3PxqTmwJH//2Q=="><div class="title">Wildfire<P>Wildfires occur when vegetated areas are set alight and are particularly common duringhot and dry periods. They can occur in forests,grasslands, brush and deserts, and with sufficient wind can rapidlyspread.</P></div></div>

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</P></div></div>

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9h
y5Yd5SzPldO7ksxQXYm5wQpPxKC55Y1DWIaHxLWZPIn7TifhOovIWsR/VfqO5++N3Q+
JssrFiSkldndLheG1h6FrWvscJJ4opKqPiRo2oC+pQb88CZg7LltO6sQwVrMDuNxjKTiBxUj wFbW
LAAH735HA1VTA1EU631DY+uBackwLf+Q/g7YaS/8AwL/WMEWyiK6zkkeS1wcUFlFbCL
Fi8
lgPocEL/qm/ob9RgKP/AO5p/r+hwOBZZ4hUcajQAizW39jggWMarMqnfv8AnA/iD/V05662 3+
hwTCAaNSRc2GHmTgeRmXjEm3BIst7c8dimYkcK21lAHpscdiVlT//Z"><div
class="title">Earthquake<P>An earthquake is a phenomenon that occurs without warning and

involves violent shaking of the ground and everything over it. It results from the release of accumulated stress of the moving lithospheric or crustal plates.</P>

```
    </div>
</div>
    </body>
</html>
```

Intro.html

```
<html>
    <head><title>homepage</title>
    <style>
        .Main{ background-
            color:darkcyan; justify-
            content: center; align-items:
            center; height: 100%;
            display:flex;
        }
        .navbar
        {
            background-color:darkgrey;
            color:black; width:
            100%;
            height:40px;
        }
        .navbar ul
        {
            display:flex; justify-content:flex-end;
            align-content: space-between;
            list-style: none; margin-top: -
            10px;
        }
        .navbar label
        {
            font-size: 25px; margin-left:
            40px;
            font-weight: bold;
```

```
        } ul
        li
        {
            width: 15%; font-
            size: 20px; font-
            weight: bold;
            margin-top:-10px;
            font-family: Cambria, Cochin, Georgia,Times, 'Times New Roman', serif;
        }
li a
        {
            text-decoration:
            none;color:whitesmok
            e;
        }
        a:hover
        {
            background-color:darkcyan;

            border-radius: 5px;
        }
        .Main
        { text-align:
        center;color:whea
        t;
        font-family:'Segoe UI', Tahoma, Geneva,Verdana, sans-serif; font-size:
        12px;
        }
    </style>
    </head>
    <body>
        <nav class="navbar">
            <label>AI BasedNatural-Disaster-Analysis</label> <ul>

                <li><a href="C:/Users/DELL/IBM-PROJECT/flask/template/home.html">Home</a></li>
                <li><a href="C:/Users/DELL/IBM-PROJECT/flask/template/intro.html">Introduction</a></li>
                <li><a href="openwebcam.html">Open Web Cam</a></li> </ul>
          </nav>
```

```
<div class="Main">
    <h1>
                <span> China, India and the United States </span> <span> are among the countries of the world most </span> <span> affected by natural disasters. </span > <span> Natural disastershave the potential to wreck and even end the livesof those people,</span> <span>who stand in their way.</span> <span> However, whether or not you are likely to be
</span> <span> affected by a natural disaster greatly depends</span > <span> on where in the world you live,</span>
        <span> The objective of </span> <span> the project is to</span> <span>human build a </span > <span> web application </span> <span> to detectthe </span> <span> type of disaster .</span> <span> The input </span > <span> is taken from the in built web cam,</span>
        <span> which in turn </span> <span> is </span> <span> given to the </span >
<span>pre trained model .</span> <span> The model predicts the </span> <span> type of disaster </span> <span> and displayed</span > <span> on UI.</span>

    </h1>
  </div>
 </body>
</html>
```

upload.html

```
<html>
 <head><title>homepage</title>
 <style>
    .Main{
      background-color:azure;
      justify-content: center;
      align-items: center; height:
      100%;
      display:flex;
    }
    .navbar
    {
      background-color:rgb(238, 81, 81); color:darkslategrey; width:
      100%;
      height:40px;
    }
```

```
.navbar ul
{
    display:flex; justify-content:flex-end;
    align-content: space-between;
    list-style: none; margin-top: -
    10px;
}
.navbar label
{
    font-size: 25px; margin-left:
    40px;
    font-weight: bold;
} ul
li
{
    width: 15%; font-
    size: 20px; font-
    weight: bold;
    margin-top:-10px;
    font-family: Cambria, Cochin, Georgia,Times, 'Times New Roman', serif;
}
li a
{
    text-decoration:
    none;color:black;
}
a:hover
{
    background-color:honeydew;

    border-radius: 5px;
}
.Main
{ text-align:
 center;color:whea
 t;
 font-family:'Segoe UI', Tahoma, Geneva,Verdana, sans-serif; font-size:
 12px;
}
```

```
    img{
     height: 80%; width:
     100%;
    }
  </style>
  </head>
  <body>
    <nav class="navbar">
      <label>AI BasedNatural-Disaster-Analysis</label> <ul>

        <li><a
href="C:/Users/MAHALAKSHMI%20G/Downloads/buildhtml/home.html">Home</a></li>
        <li><a
href="C:/Users/MAHALAKSHMI%20G/Downloads/buildhtml/intro.html">Introduction</a></li>
        <li><a
href="C:/Users/MAHALAKSHMI%20G/Downloads/buildhtml/openwebcam.html">Open Web
Cam</a></li>
        </ul>
     </nav>
    <div class="Main">
      <img src="https://images.unsplash.com/photo-1532883130016-
f3d311140ba8?ixid=MXwxMjA3fD B8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&ixlib=rb-
1.2.1&auto=format&fit=crop&w=1 050&q=80">
     </div>
  </body>
</html>
```

app.py

```
from flask import Flask,request,redirect,url_for,render_template from werkzeug.utils import
secure_filename import os app=Flask(__name__)
app.config['images']='C:\\Users\\DELL\\Downloads\\AI-BASED-NDA\\Flask\\static\\images'
@app.route('/home',methods=['GET']) render_template('intro.html')
@app def home():
```

```
    return render_template('home.html')
@app.route('/home/intro',methods=['GET']) def
intro():
    return.route("/",methods=["POST","GET"])   def
upload():
    if request.method=="POST":
        print(request.files)

        image=request.files['file']
        if image.filename=='':
            print("filename is invalid")
            return redirect(request.url)
        filename=secure_filename(image.filename)
        basedir=os.path.abspath(os.path.dirname(__file__))
        image.save(os.path.join(basedir,app.config["images"],filename))
        return render_template("upload.html",filename=filename)
    return render_template('upload.html')
@app.route('/display/<filename>') def
display(filename):
    return redirect(url_for('static',filename = '/images/'+filename),code=301)


app.run(port=5000)
```

8. Testing

8.1 Use cases

USER TYPE	FUNCTIONAL REQUIREMENT	USER STORY NIMBER	USER STORY/ TASK	ACCEPTANCE CRITERIA	PRIORITY	RELEASE

Customer(Mobile user)	Registrati on	USN-1	As a user, I can register for the application by entering my email, password, and comfirming my password	I can access my account/ dashboard	High	Sprint-1
		USN-2	As a user, I will receive confirmati on email once Ihave registered for the application	I can receive confirmati on email & click confirm	High	Sprint-1
		USN-3	As a user, I can		Medium	Sprint-1
			register for the application through Gmail			
	Login	USN-4	As a user, Ican log into the application email & password		High	Sprint-1

	Dashboard					
Customer (Web user)		USN-5	As a user, you can view edit your personal details	I can edit and view my details	Low	Sprint-2
		USN-6	As a user, you can determine future climatic changes	I can check on informati on about weather forecast	High	Sprint-2
Administra tor		USN-7	As a admin you can provide or display the requested details form user such as displaying forecasted weather of the place	I can display forecasted details about weather.	Medium	Sprint-3

8.2 User Accepetance Testing

USER TYPE	FUNCTIONAL REQUIREMENT	USER STORY NIMBER	USER STORY/ TASK	ACCEPTANCE CRITERIA	PRIORITY	Status
Customer(Mobile user)	Registration	USN-1	As a user, I can register for the application by entering my email, password, and comfirming my password	I can access my account/ dashboard	High	Success
			As a user, I	I can		
		USN-2	will receive confirmation email once Ihave registered for the application	receive i confirmat & email click confirm	High	Success

		USN-3	As a user, I can register for the application through Gmail		Medium	Success
	Login	USN-4	As a user, Ican log into the application email & password		High	Success
	Dashboard					
Customer (Web user)		USN-5	As a user, you can view edit your personal details	I can edit and view my details	Low	Success
		USN-6	As a user, you can determine future climatic changes	I can check on informati on about weather forecast	High	Success
Administra tor		USN-7	As a admin you can	I can display	Medium	Success

			provide or display the requested details form user such as displaying forecasted weather of the place	forecasted details ab weather.		

9. Results

9.1 Performance metrics

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2
Sprint-1	Dashboard	USN-2	As a user, I will receive confirmation email once I have registered for the application	1
Sprint-2	Login	USN-3	As a user, I can register for the application through Facebook	2
Sprint-1	Registration	USN-4	As a user, I can register for the application through Gmail	2

10. Advantages and Disadvantages

Advantages

We've got more than a century of detailed disaster data, tracking hurricane paths and earthquake intensities and even volcanic eruptions and the signs that lead up to those events. Artificial intelligence and machine learning can take this data, analyze it and use that information to predict when new disasters might occur.

These systems can "learn" to predict everything from earthquakes and volcanic eruptions to floods, hurricanes and tornadoes. Scientists already collect detailed data as these events occur. AI merely takes this information to the next level. With enough data, a predictive AI system can accurately forecast future events.

The applications for this technology are numerous. Google is working on an AI platform to predict the location and likelihood of floods in monsoon-prone India. From there, the system can warn those who might need to evacuate to higher ground.

DISADVANTAGES:

In a disaster, you face the danger of death or physical injury. You may also lose your home, possessions, and community. Such stressors place you at risk for emotional and physical health problems. Stress reactions after a disaster look very much like the common reactions seen after any type of trauma.

The prediction may go wrong and waste lot of resources and time. It causes people to lose their physical potential.

11. Conclusion

Many researchers have attempted to use different deep learning methods for detection of natural disasters. However, the detection of natural disasters by using deep learning techniques still faces various issues due to noise and serious class imbalance problems. To address these problems, we proposed a multilayered deep convolutional neural network for detection and intensity classification of natural disasters. The proposed method works in two blocks—one for detection of natural disaster occurrence and the second block is used to remove imbalanced class issues. The results were calculated as average statistical values: sensitivity, 97.54%; specificity, 98.22%; accuracy rate, 99.92%; precision, 97.79%; and F1-score, 97.97% for the proposed model. The proposed model achieved the highest accuracy as compared to other state-ofthe-art methods due to its multilayered structure. The proposed model performs significantly better for natural disaster detection and classification, but in the future the model can be used for various natural disaster detection processes.

12. Future Scope

The prediction accurancy can increase. The model can use another set of layers to avoid distortion of images. The disaster will be more quickly and more widely televised via emergent and emerging social media, especially crowdsourcing technologies. As broadband cellular technologies reach the underdeveloped regions of the world, such disasters will be broadcast in significantly greater living color.

The public outcry from millennials, Hollywood, and eventually mainstream America, will crescendo. Funding will likely be quick and significant.

13. APPENDIX

Building and training model

```
from google.colab import drive
drive.mount('/content/drive') import numpy as np import
pandas as pd import tensorflow
```

```
as tf from tensorflow.keras import layers from tensorflow.keras.models import Sequential from
tensorflow.keras.preprocessing.image import ImageDataGenerator import matplotlib.pyplot as plt

train_datagon=ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_r
ange=0.2,horizontal_flip=True) test_datagon=ImageDataGenerator(rescale=1./255)

x_train=train_datagon.flow_from_directory('/content/drive/MyDrive/IBM- PROJECT/dataset/
train_set',target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='categorical')
x_test=test_datagon.flow_from_directory('/content/drive/MyDrive/IBM- PROJECT/dataset/
train_set',target_size=(64,64),batch_size=5,color_mode='rgb',class_mode='categorical')

from tensorflow.keras.layers import Dense,Flatten from

tensorflow.keras.layers import Conv2D,MaxPooling2D

model=Sequential()

model.add(Conv2D(32,(3,3),input_shape=(64,64,3),activation='relu'))
model.add(MaxPooling2D(pool_size=(2,2))) model.add(Conv2D(32,(3,3),activation='relu'))

model.add(MaxPooling2D(pool_size=(2,2))) model.add(Flatten())

model.add(Dense(units=128,activation='relu'))

model.add(Dense(units=4,activation='softmax')) model.summary()

model.compile(optimizer='adam',loss='categorical_crossentropy',metrics

=['accuracy'])
model.save('disaster.h5') model_json=model.to_json()with open("model-bw.json","w")asjson_file:
json_file.write(model_json)

from tensorflow.keras.models import load_model from tensorflow.keras.preprocessing import
image model=load_model("disaster.h5")
img=image.load_img('/content/drive/MyDrive/dataset/test_set/
Earthquake/1321.jpg',target_size=(64,64)) x=image.img_to_array(img)
x=np.expand_dims(x,axis=0) pred=model.predict(x)np.argmax(pre d) pred
index=['Cyclone','Earthquake','Flood','Wildfire'] y=np.argmax(model.predict(x),axis=1)
```

print(index[int(y)])

home.html

```
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    <style>
```

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    dimgray; justify-content:
    center; align-items:
    center; height:
    100%;
    display:fle x;
}
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{
    background-color:black;
    color:chartreuse; width:
    100%; height:
    40px;
}
.navbar ul
{
    display:flex;          justify-
    content:flex-end;    align-
    content:   spacebetween;
    list-style:  none;  margin-
    top: -10px;
}
.navbar label
{
    font-size: 25px;
    marginleft:
    40px; font-
    weight: bold;
} ul
li
{
    width: 15%;
    font-size: 20px;
    font-weight:
    bold;
    margintop:-
    10px;
    font-family: Cambria,Cochin, Georgia, Times,'Times New Roman',serif;
}
li a
```

```
 {
    text-decoration: none;
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 }
 a:hover
 {
    background-color:chartreuse;

    border-radius: 5px;
 }
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{
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  height:80%;
  margin:40px 50px;
  display: flex;
}
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{
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 height: 400px;
 margin-left:
 15px; box-
 shadow:-1px 0
 10px
 whitesmoke;
 align-items:
 center;
 justify-content: center;
 text-align:
 center;
}
img{ width:
 250px;
 height:
 200px;
}
.title
{     text-align:
 center; color:
```

```
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        font-size:
        25px;
        fontweight:
        bold;
       }
      p{
        text-align: center;
        color:
        whitesmoke; font-
        size:
        15px;

      }
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                <li><a href="">Home</a></li>
                 <li><a href="">Introduction</a></li>
                <li><a href="">Open Web Cam</a></li>
            </ul>

        </nav>
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<div class="disaster"><img

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class="title">Wildfire<P>Wildfires occur when vegetated areas are set alight and are particularly common duringhot and dry periods. They can occur in forests,grasslands, brush and deserts, and with sufficient wind can rapidlyspread.</P></div></div>

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JEiTZIyxNECWg5LKe/Mbjty36YbNN0bCVWJxma5lBHRyZbI9jqSVrrp9dR9/r2wZQ5VSh0eq
zN5ZotohpASInnZABvbrjK5vJLXSqXZaWanY2VYLFW9dxv8A74EWqzSEFhmXkKldLUgJtzI

vq2xRKhHs37QMJ+EK+KVCbjWNOnuSSdzhVXVEWXMlMuZwNIjXKCGwUdCW1H/Ppj5tUZ9
W1GlpZamWOMeV12AI9P8AOOjNVWAPQZcZZpCCs4S7J6X5c9788FzRlA+kZlm3GlMk
eeQxuGDHRTAi9rX3J9L2PLncDCSrzaeEJTQ13xESusnGWPhsSq6FBHLZQBfme5xnl8L1z
wOZ5Iop7HylwW+pGwH1w48M+BJ9JzPPIjw411R0x/iIBsW9OW33xNNS4xpJx6N6PxGzVa
wxApAwFg9tjYD9NsOajMJnbWbAk3tpB/X6fbC7LctyqBZmWgWmqZAP3kKix9Cp+W9zutsF
VUcpdVjA321NsDtzxnQUVmYly7C5O978ziHH1EXXckHfE6mjkCIoO5HMHFSwmnqIJZ7gC
Rb9RzwAsvzCQinCg/8AkAOOh0ta21ueK/FMpMMPC/8A0Je299mJv9sdQ63I1XAUfKMMxU
GvICgAsT3Ix2PQ+k6WO/PcdMdgBo7JyzIM2q5YISblmkhVWk6XJ20374PzDMazOHFJE01I
pQ6zAAxTbaxsR9sZaqzzMMzkgFTklPqUao0kci1rb29O5GHc0ucTUumSOIJUFeJolKsFv32
O4wczLzoooqAxtBHSmqnpIgyNWK4uSOYYWuD027b4uzOpq1reFlCxvWiOyxaCdQNr7C53
x7BPVrQR5bS/E1Ueq08zkEKpO/W5xRU5vm0A/Z+V0TRRhNnWzlh3JsBf35YdNUI0RAz2d
eLWQQ0ZA8qzOqFjfoLFgPtzwozJqtXM0KIldHHdF1llZQL+T3PS3XETUZn8XEtRNS2YnXxZ
01kbbAi578sG1VOTTyn4iOMkXjuOtu/vic6e09lIJrTWjP8AhPxJn/xrU8xdYHQyhWjBXVzuQ2/
2th3U+Jcrq0eXNKZ4ZIWVPiaV9Bub2XTupvc9RzwDFwZwGnX4aqmPDkCHW0o7rbkfW3b
HlNkOV08Hw/EqKmnaQySayy6e2o2HLBjK0aUaZo8hzI0hSKir4q+ldvLSN+6mjHYBufsDbGn
pswgrk1QyMQNmVlsR6b4+SVWWwHNRT0s9KGcErVTkSFBa9gl+e3M25iwxocvRcrRJKGp
qJKjVu9TJ5ZB27/XpibV7YybWkaTP/DmX59oepjtLFtHKrlSfQ2tfGFl8PvTVskGZ8RNyylJG0Fb9
N+nbnjeZTnEOZBuF5JlH7yEm5Q+nceuC6yCGugaCpQPEeYva2BboNJuzAeJZooYaKHLnpqe
aNLJI1uEAbXAvz5A36YCpaWqrHUVviYSyynSIqWK7N6bAnBud+EmpZJJWRKunCkpJ
LIUMXYbdL3/xht/6b0mUUdOslHULNWts76tRNui32+1jhlFMGTVjTw54LpcukWsqGeepHyrJI
zKnrYkjUPxjWywg0FUp6wuDbf8AhOI09pANJYg/xKfwcE6dMMilWK6SLrc/5xdJJEG7ZgogA
g3IsOuLomF7DbFa3WMW7YH+MCVMcVjqI3v64jwrQaQwLb2wNOQJIvL/AOQdeWCDKpU
ptvgeZo2niDG++4J25YwfohmyqHpoyBZqpSPTYk3wfTlFKx7XAtfvhTnjkS0Ejarlwb7WsQT29
MHcQh0Y6Tc79MM3omkG1KDWbgW5bY7FbVFmN1v749wBqLaBYGUMzxKehkcnfbn1OK

8xVakODUKgY+YI9jy9r/74Bn3Bvvy/tj2kVQmygbX5dcZfIMvjwkuWx0FHFFFPHIqkqERjffcnAtXH
JYAxtKh2ZdQ8o9jhpYBRYDn/AGxTIfOv1xVLRNsUrTi3Dij4S8xcAW+uBqmlq5WC/E3jW+
ocO7Fu4bp9sPHAINxfY/piCqug7D7Y2ETZszv7Ohp2LgNqJF2J7Yvjp6jNA9LDAsyjYvI1kS/q
evoMH1gHDbbDvKVVKeyAKA4AAFrbYWVLgU2+mdyzwqKZ5ojLJHTxsF4yXDS7b2PMAE8
+uBvFeXVNEizwSTVCW0cIkHzdDq/l6nbG5sGqrMLjbn7YQZh5qtA24CmwPTfE8U+lLa4Z eK
tjy3KY+GXmr+JrMoQxiHvp23HS29+uNV4e8SDMo1jqkMNTYbEbSe3r6YVZ+ijKpyFAOg nl6
YweUTStJMGkchZjYFjtscCarhoO9n2x3WRdLqLHmOhHtjH554ZaJjW5ChE4N2p1YAG38t
9h
y5Yd5SzPldO7ksxQXYm5wQpPxKC55Y1DWIaHxLWZPIn7TifhOovIWsR/VfqO5++N3Q+
JssrFiSkldndLheG1h6FrWvscJJ4opKqPiRo2oC+pQb88CZg7LltO6sQwVrMDuNxjKTiBxUj wFbW
LAAH735HA1VTA1EU631DY+uBackwLf+Q/g7YaS/8AwL/WMEWyiK6zkkeS1wcUFlFbCL
Fi8
lgPocEL/qm/ob9RgKP/AO5p/r+hwOBZZ4hUcajQAizW39jggWMarMqnfv8AnA/iD/V05662 3+
hwTCAaNSRc2GHmTgeRmXjEm3BIst7c8dimYkcK21lAHpscdiVlT//Z"><div
class="title">Earthquake<P>An earthquake is a phenomenon that occurs without warning and involves violent shaking of the ground and everything over it. It results from the release of accumulated stress of the moving lithospheric or crustal plates.</P>

```
    </div>
</div>
    </body>
</html>
```

intro.html

```
<html>
    <head><title>homepage</title>
    <style>
        .Main{ background-color:darkcyan;
            justify-content: center; align-
            items: center;
            height: 100%;
            display:flex;
        }
        .navbar
        {
            background-color:darkgrey;
            color:black; width:
            100%;
            height: 40px;
        }
```

```
.navbarul
{
    display:flex; justify-content:flex-end;
    align-content: space-between;
    list-style: none; margin-top: -
    10px;
}
.navbarlabel
{
    font-size: 25px; margin-left:
    40px;
    font-weight: bold;
} ul
li
{
    width: 15%; font-
    size: 20px; font-
    weight: bold;
    margin-top:-10px;
    font-family: Cambria,Cochin, Georgia, Times,'Times New Roman',serif;
}
li a
{
    text-decoration: none;
    color:whitesmoke;
}
a:hover
{
    background-color:darkcyan;

    border-radius: 5px;
}
.Main
{
text-align: center; color:wheat;
font-family:'Segoe UI', Tahoma, Geneva, Verdana,sans-serif; font-size:
12px;
}
```

```
</style>
</head>
<body>
  <navclass="navbar">
    <label>AI BasedNatural-Disaster-Analysis</label> <ul>

      <li><a href="C:/Users/DELL/IBM-PROJECT/flask/template/home.html">Home</a></li>
      <li><a href="C:/Users/DELL/IBM-PROJECT/flask/template/intro.html">Introduction</a></li>
      <li><a href="openwebcam.html">Open Web Cam</a></li> </ul>
   </nav>
  <divclass="Main">
    <h1>
                <span> China, India and the United States </span> <span> are among the countries of the world most </span> <span> affected by natural disasters. </span > <span> Natural disastershave the potential to wreck and even end the livesof those people,</span> <span>who stand in their way.</span> <span> However, whether or not you are likely to be
</span> <span> affected by a natural disaster greatly depends</span > <span> on where in the world you live,</span>
        <span> The objective of </span> <span> the project is to</span> <span>human build a </span > <span> web application </span> <span> to detectthe </span> <span> type of disaster .</span> <span> The input </span > <span> is taken from the in built web cam,</span>
        <span> which in turn </span> <span> is </span> <span> given to the </span >
<span>pre trained model .</span> <span> The model predicts the </span> <span> type of disaster </span> <span> and displayed</span > <span> on UI.</span>

      </h1>
    </div>
  </body>
</html>
```

upload.html

```
<html>
  <head><title>homepage</title>
  <style>
    .Main{ background-color:azure;
      justify-content: center;
```

```
        align-items: center; height:
        100%;
        display:flex;
    }
    .navbar
    {
        background-color:rgb(238, 81, 81); color:darkslategrey; width:
        100%;
        height: 40px;
    }
    .navbarul
    {
        display:flex; justify-content:flex-end;
        align-content: space-between;
        list-style: none; margin-top: -
        10px;
    }
    .navbarlabel
    {
        font-size: 25px; margin-left:
        40px; font-weight: bold;
    } ul
   li
    {
        width:  15%;  font-
        size:  20px;  font-
        weight:  bold;
        margin-top:-10px;
        font-family: Cambria,Cochin, Georgia, Times,'Times New Roman',serif;
    }
li a
    {
        text-decoration: none; color:black;
    }
    a:hover
    {
        background-color:honeydew;
```

```
        border-radius: 5px;
      }
      .Main
      {
       text-align: center; color:wheat;
       font-family:'Segoe UI', Tahoma, Geneva, Verdana,sans-serif; font-size:
       12px;
      }
      img{
       height:80%; width:100%;
      }
   </style>
   </head>
   <body>
      <navclass="navbar">
         <label>AI BasedNatural-Disaster-Analysis</label> <ul>

            <li><a
href="C:/Users/MAHALAKSHMI%20G/Downloads/buildhtml/home.html">Home</a></li>
            <li><a
href="C:/Users/MAHALAKSHMI%20G/Downloads/buildhtml/intro.html">Introduction</a></li>
            <li><a
href="C:/Users/MAHALAKSHMI%20G/Downloads/buildhtml/openwebcam.html">Open Web
Cam</a></li>
          </ul>
        </nav>
      <divclass="Main">
        <img                                src="https://images.unsplash.com/photo-1532883130016-
f3d311140ba8?ixid=MXwxMjA3fD          B8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&ixlib=rb-
1.2.1&auto=format&fit=crop&w=1 050&q=80">
        </div>
     </body>
</html>
```

GitHub

https://github.com/IBM-EPBL/IBM-Project-27247-1660051833

Project Demo Link

https://drive.google.com/file/d/1s9C8c2AqfvuPrV3NUS7huvQaH-WYPTXf/view?usp=sharing