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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 drastically affects the economy, ecosystem and human life. Buildings collapse, ailments spread and sometimes natural disasters such as tsunamis, earthquakes, and forest fires can devastate nations. When earthquakes occur, millions of buildings collapse due to seismological effects [1]. Many machine learning approaches have been used for wildfire predictions since the 1990s. A recent study used a machine learning approach in Italy. This study used the random forest technique for susceptibility mapping of wildfire . Floods are the most devastating natural disaster, damaging properties, human lives and infrastructures. To map flood susceptibility, an assembled machine learning technique based on random forest (RF), random

subspace (RS) and support vector machine (SVM) was used [3]. As the population 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. Populations in underdeveloped countries cannot afford damages disasters cause to infrastructures. The aftermath of disasters leaves the humans in miserable situations, and sometimes the devastating effects cannot be detected; additionally, rescue operations cannot take place in most of the places and victims are unable to be identified due to geographical factors of the different areas. Disasters such as forest fires spread rapidly in dense areas, so firefighting 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 Existing 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 detection of natural disasters still faces issues due to the complex and imbalanced structures of images.

2.2 REFERENCES

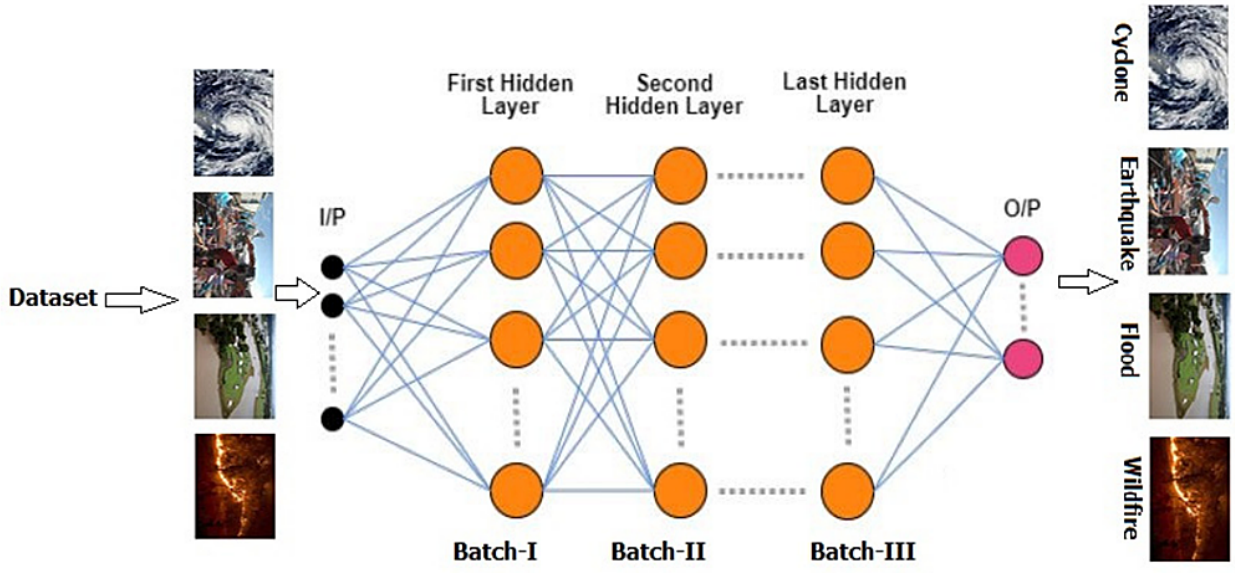
Adams, G., O'Brien, L. T., & Nelson, J. C. (2006). Perceptions of racism in Hurricane Katrina: A liberation psychology analysis. Analyses of Social Issues and Public Policy, 6(1), 215–235. Aguirre, B. E. (1988). The lack of warnings before the Saragosa tornado. International Journal of Mass Emergencies and Disasters, 6(1), 65–74. Al-rousan, T. M., Rubenstein, L. M., & Wallace, R. B. (2014, March). Preparedness for natural disasters among older U.S. adults: A nationwide survey. American Journal of Public Health, 104(3), 506–511. doi: 10.2105/ AJPH.2013.301559 Austin, R., & Schill, M. (1994). Unequal protection. San Francisco, CA: Sierra Club Books. Bolin, B. (2007). Race, class, ethnicity, and disaster vulnerability. Handbook of disaster research (pp. 113–129). New York, NY: Springer. Bolin, R. (1986). Disaster impact and recovery: A comparison of

black and white victims. International Journal of Mass Emergencies and Disasters, 4(1), 35–50. Bolin, R. (1993). Household and Community Recovery After Earthquakes, Program on Environment and Behavior Monograph No. 56, University of Colorado, Institute of Behavioral Science, Natural Hazards Research and Applications Information Center, Boulder. Bolin, R., & Bolton, P. (1986). Race, religion, and ethnicity in disaster recovery, Program on Environment and Behavior Monograph No. 42, University of Colorado, Institute of Behavioral Science, Natural Hazards Research and Applications Information Center, Boulder. Bolin, R., with Stanford, L. (1998). The Northridge earthquake: Vulnerability and disaster. New York, NY: Routledge. Bonanno, G. A. (2004). Loss, trauma, and human resilience: Have we underestimated the human capacity to thrive after extremely aversive events? American Psychologist, 59(1), 20–28. Bouchama, A., Dehbi, M., Mohamed, G., Matthies, F., Shoukri, M., & Meanne, B. (2007). Prognostic factors in heat wave–related deaths: A meta-analysis. Archives of Internal Medicine, 167, 2170–2176. doi:10.1001/ archinte.167.20.ira70009 Bourque, L. B., Russell, L. A., & Goltz, J. D. (1993). Human behavior during and immediately after the earthquake. In P. A. Bolton (Ed.), The Loma Prieta, California, earthquake of October 17, 1989: Public response (pp. B3–B22). Washington, DC: U.S. Government Printing Office. Buttke, D., Vagi, S., Bayleyegn, T., Sircar, K., Strine, T., Morrison, M., . . . Wolkin, A. (2012, October). Mental health needs assessment after the Gulf Coast oil spill—Alabama and Mississippi, 2010. Prehospital and Disaster Medicine, 27(5), 401–408. doi: 10.1017/S1049023X12001100 Buttke, D., Vagi, S., Schnall, A., Bayleyegn, T., Morrison, M., Allen, M., & Wolkin, A. (2012, December). Community Assessment for Public Health Emergency Response (CASPER) one year following the Gulf Coast oil spill: Alabama and Mississippi, 2011. Prehospital and Disaster Medicine, 27(6), 496–502. doi: 10.1017/ S1049023X12001380 Centers for Disease Control and Prevention. (2016). Behavioral Risk Factor Surveillance System. Available online at https://www.cdc.gov/brfss Childers, C. D. (1999). Elderly female-headed households in the disaster loan process. International Journal of Mass Emergencies and Disasters, 17(1), 99–110. Comerio, M. C., Landis, J. D., & Rofe, Y. (1994). Post-Disaster Residential Rebuilding, Working Paper 608, Institute of Urban and Regional Development, University of California, Berkeley, CA. Cooper, F., & Laughy, L. (1994). Managing hazards in a changing multinational world.

Unpublished manuscript. Dash, N., Peacock, W. G., & Morrow, B. H. (1997). And the poor get poorer: A neglected black community. In: W. G. Peacock et al. (Eds.), Hurricane Andrew: Ethnicity, Gender, and the Sociology of Disasters (pp. 206–225). New York, NY: Routledge.

2.3 Problem statement definition

The natural disaster intensity analysis and classification is based on multispectral images using a multilayered deep convolutional neural network. Moreover, this method consists of two blocks of a convolutional neural network. The first block detects a natural disaster occurring and the second one defines the intensity type of the natural disaster. Additionally, the first block consists of three mini convolutional blocks with four layers each, including an image input and fully connected layers. On the other hand, the second block also consists of three miniconvolutional blocks with two layers each and includes an image input layer and is fully connected.

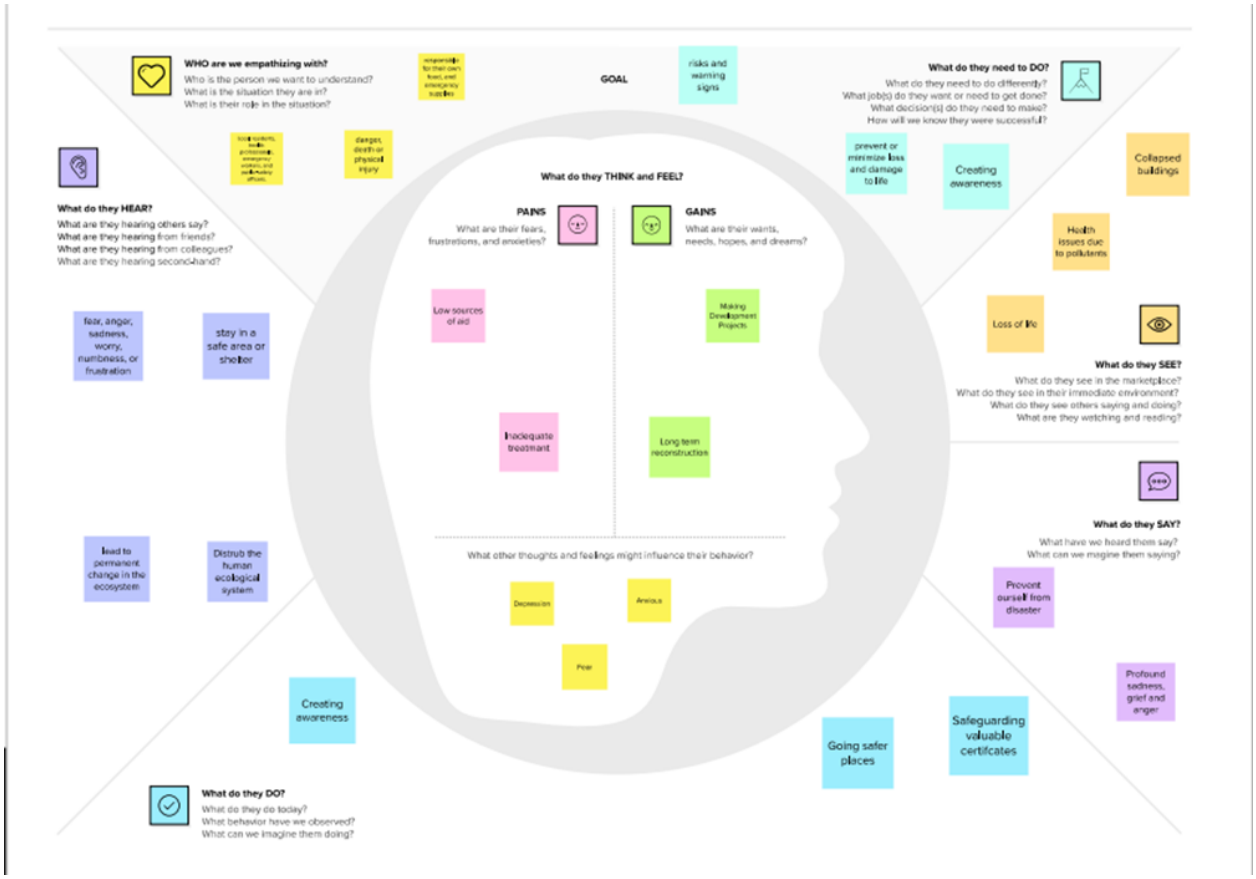


3. IDEATION & PROPOSED SOLUTION

3.1 Empathy map canvas

An empathy map is an effective visualization template that helps analyze the

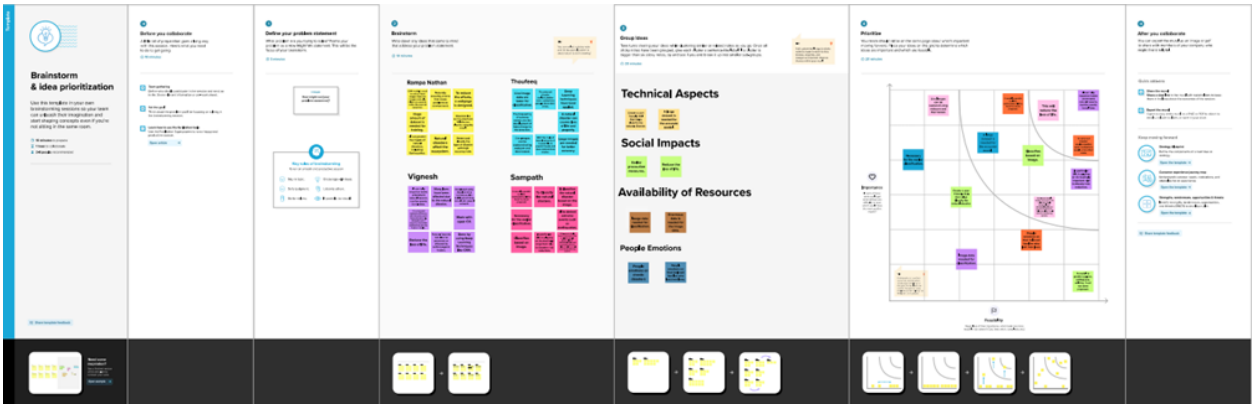
behavior and emotions of customers and users. Empathy maps not only detect the behaviors but highlight possible mediums for brands to communicate with their customers in a better way. Whether this is changing their outreach strategies, user experience, or messaging, an empathy map aims to view a given interaction through the customer's eyes and improve it from their perspective.
Empathy maps are beneficial in uniting a team to address the core concerns of the customer and ensuring that this process both documents their frustrations and provides a consumer-informed solution.



3.2 Brainstorm & Idea Prioritization Template:

Brainstorming provides a free and open environment that encourages everyone within a team to participate in the creative thinking process that leads to problem solving. Prioritizing volume over value, out-of-the-box ideas are welcome and built upon, and all participants are encouraged to collaborate, helping each other develop a rich amount of creative solutions.

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



3.3 Proposed solution

Project team shall fill the following information in proposed solution 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 solution fit

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns 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 solution adoption by tapping into existing mediums and channels of behavior.

Sharpen your communication and marketing 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 existing situation in order to improve it for your target group.

4. Requirement Analysis

4.1 Functional Requirement:

Following are the functional requirement of the proposed solution

FR NO	FUNCTIONAL REQUIREMENT	SUB REQUIREMENT
FR-1	User Registration	Registration through form Registration through gmail Registration through linkedIn
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User Profile	Personal Details
FR-4	Information about weather forecasting	Helps to determine future climate change

FR-5	Display the forecasting of the place	Such as Precipitation, Humidity, Wind

4.2 Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

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 deterioration.
NRF-5	Availability	The system should be accessible to a user at a given point in time.

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)	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	Sprint-1
		USN-2	As a user, I will receive	I can receive	High	Sprint-1

			confirmation email once Ihave registered for the application	confirmation 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

6.2 Sprint Delivery Schedule

Sprint	Functional Requirement(Epic)	User story Number	User story / Task	Story points	Priority	Team members
Sprint-1	Registration	USN – 1	As a user, Registering into the product using a valid email address	5	High	SWATHI K
Sprint-2	Registration	USN – 2	As a user, Registering into the product using a valid username and password	3	Medium	ISHWARYA S
Sprint-1	Authentication	USN – 3	As a user , I adept to logging into the system with credentials	4	High	SHAFRIN SAMEEMA S
Sprint-2	Authentication	USN - 4	As a user , I adept to logging into the system with OTP	2	High	MONISHA DEVI T
Sprint-1	Designation of Region	USN – 5	selecting the region of interest to be monitored and analysed	3	High	SWATHI K
Sprint-2	Analysis of Required Phenomenon	USN – 6	Regulating certain factors influencing the actions of the phenomenon	3	High	ISHWARYA S
Sprint-2	Accumulation of required Data	USN – 7	Gathering data and detailed report on past event analysis	4	Medium	SHAFRIN SAMEEMA S
Sprint-4	Organizing Unstructured data	USN – 8	Organizing and reorienting the raw data into a refined data	3	Low	MONISHA DEVI T
Sprint-2	Algorithm selection	USN – 9	Choosing a required algorithm for specific analysis	2	High	SWATHI K ISHWARYA S SHAFRIN SAMEEMA S MONISHA DEVI T
Sprint-3	Prediction and analysis of data	USN – 10	Predicting and visualizing the data effectively	6	High	SWATHI K ISHWARYA S SHAFRIN SAMEEMA S MONISHA DEVI T
Sprint-4	Report generation	USN – 11	Generating a clear and detailed report on product data analysis	3	High	SWATHI K ISHWARYA S

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 ImageDataGeneratorimport 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: 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: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; font-
```

```
        weight: 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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AABAAID/8QAHREBAQADAQADAQAAAAAAAAAAAAECERIhAzFRQf/aAAwDAQACEQM
RAD8A2RLG5YAWF7dsekBgCTbfc4QF8w7gaRucdYSarglBfna+JEsTK122jGyjChsCAbsdy2
PAt2AAFh0vxhxVAO3HviTl1BePrjwyG9v/AMwprFQ3T54YqHOnbg4gWY02Zjf3PTCfzMBca
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CSgPJGFqjHfc/thd405H0vfAiFRRjtHthzzYzwALdDjrqei//AC/4xE0V7YQV07nb6YfuvVk+jj/fD
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WIF8SKlsxCjjEVzqY32UbW9s6RsMSNlbDbbHh9I4wpyFvc798pDX1KV

MgVW21HEjrTdLqR+31wgSEsBESzdgP8AfAyqzqCkvHRpHIyj1SykhRgRF4yhlr1gmqYNlJd
1cDRbqBiS0v519Mradrk6tvrbEPMs3hyqkapqp/MjCkgR+q9sZt4k/E2nWRo8jd55GGi5G1+9z
z9MZznmYZlVeSmavO0y6m/mggG55HQ/PDIza26j/EnKZYfOn86hiZtKPOCus87c4N03ivLJo
RKtT5qW1CRWUr9cfMLOzW1MTbi5x7FK0RLRsVPsbb98PMXT6rXM8re3mVcCMVDi9hcd
8cWopxqgYsORJG1/0x80Zj4gqsxy6kpKm7tTl7zs93fUeONgMF/CPjetyFxFJH8XSN/0i+ll7kG
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so/MT0xzvoI/wBSm9u4w3UVPlxame225A4wg25N73ve+IvmIm9AYqR6sOCbzh1t8+cR3R
9ijFQDiJz4l/LIkJEibagb3HfDsbak9+uB7OFjBVd+AMLlqDS0h85luB+b2xI5U1VPTjXO4Cg98
ZT438fzCtaDLdCeWSFOxt726n5/bET8RvE84kSjoKpQGD+eFb1A3tb2A49zftigZbSyZhWpC
kckryG2lDuxONSM2i0GY5tnkssVVNU1MQQsyBrD5kgX2vew5tbjE6l8I19bXp/DqSejpiwDVN
VYaB1IBG/sB7Y0zwn4Np8oiFRVLrq2ZXIGyxkcD3t++LaaJWUgxhm2tta1sW/wyMJk8B1dNPJo
q9E6SDySGF2F/wAxAN1HX5YgZp4YrZLVLV3x2sARzBiwkNzfpfbt/wAY3CtoKQs0MkyCVj
qIUsLfMjFWrvDDtKEoq1y4fUoJ0qot+a6i97XO/OM21aYaQysVIIINiD0x6ysrFWBDDkEbjFp8
Q5LUUuYGeRVUofURImp3B6ITq2APTtiXTZf8RWGWSOONqgLpdj6V23tzb5Yr8mhpSgCc
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nHlwNbcWviHlkytCpi0sHUGwGHa6VvgJ+hANjiJgoBpZz6O2Kb46z80FHLKJEOhSES/Lngn
6/pgzVVDTUccTFrpIA1u1x/vjJPxEzRKvMPg4WV/JkYyMvQ8Bfpv98akFoDl1DV57VxUsDNL
WTSEIDawHLMT0+uNf8BeDhkdTLUCQM59CsQDfuQcA/wryBo6GXM5kZJqi8ULW/6Ztq36
XA/XGlTVHk6Yqa/mvsqqP37DDaJC6ipipCsjg2JsT3wxJnNJMr+XVFDpsLrYX974hNk8Ikaor
5NUpXcyTGyrtwt+MM1eQ0lXH6JpISdkk6Dc8g3v9sZaLqKiCNGeadVCsiTFImcSBjYMQBfn6cY
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iv class="title">Flood<P>Floods are the most frequent type of natural disaster and occur whenan overflow of water submerges land that is usually dry. Floods are often caused by heavy rainfall, rapid snowmeltor a storm surge from a tropicalcyclone or tsunamiin coastal areas.

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eK
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nl6
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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)	**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**	**Sprint-1**
		USN-2	**As a user, I will receive confirmation email once Ihave registered for the application**	**I can receive confirmation 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**	**I can display forecasted details about weather.**	**Medium**	**Sprint-3**

			the place			

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 confirmation 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 information about weather forecast**	**High**	**Success**
Administra		**USN-7**	**As a admin**	**I can**	**Medium**	**Success**

tor			**you can provide or display the requested details form user such as displaying forecasted weather of the place**	**display forecasted details about 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-of-the-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 ImageDataGeneratorimport 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

```
<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:
         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:whitesmoke;
 }
 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:
   200px;
  }
  .title
  {
   text-align:
   center;color:
   chartreuse;
   font-size:
   25px; font-
   weight: 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="
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RVULuLdN8e4UIxbfHY5uj/2Q=="><div class="title">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></div></div>

<div class="disaster"><img src="
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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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</P></div></div>

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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 >
```

pre trained model . The model predicts the   type of disaster   and displayed on UI.

```
            </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