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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](https://www.mdpi.com/1424-8220/21/8/2648/htm#B1-sensors-21-02648)]. 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](https://www.mdpi.com/1424-8220/21/8/2648/htm#B3-sensors-21-02648)]. 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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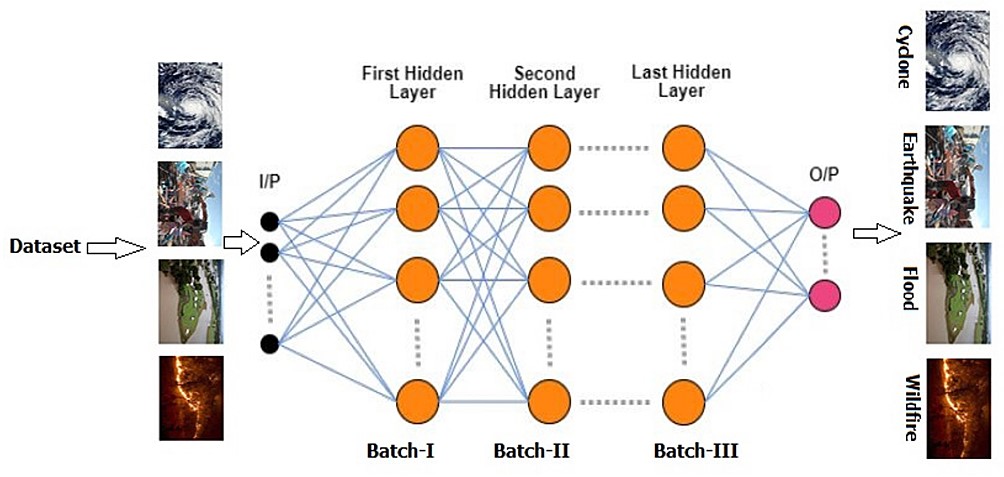
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206–225). New York, NY: Routledge.

#### 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.

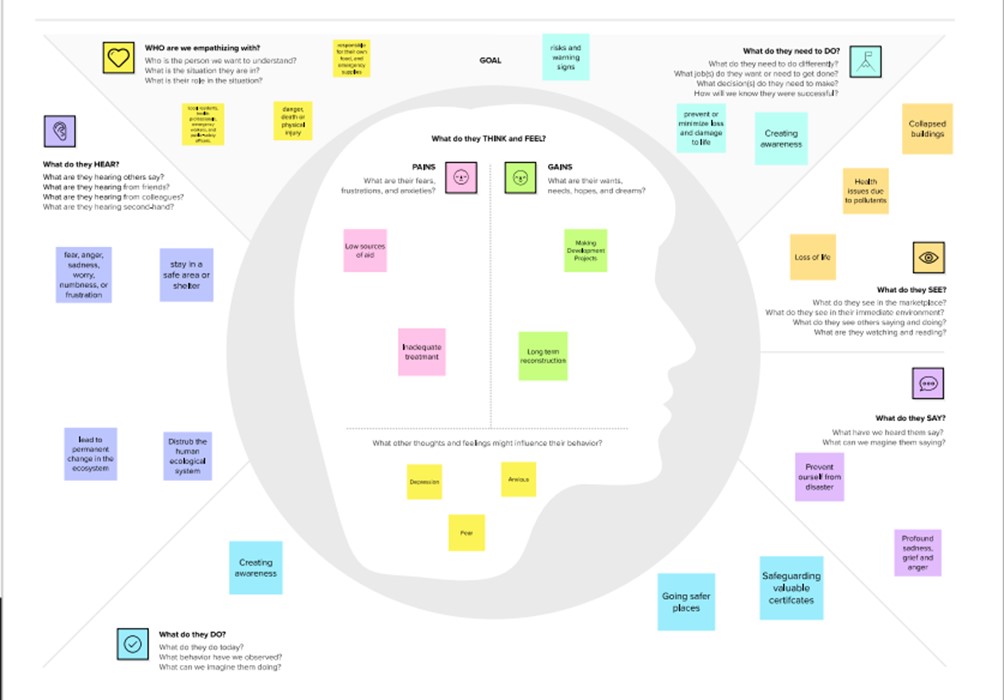


#### 3. IDEATION & PROPOSED SOLUTION

**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.

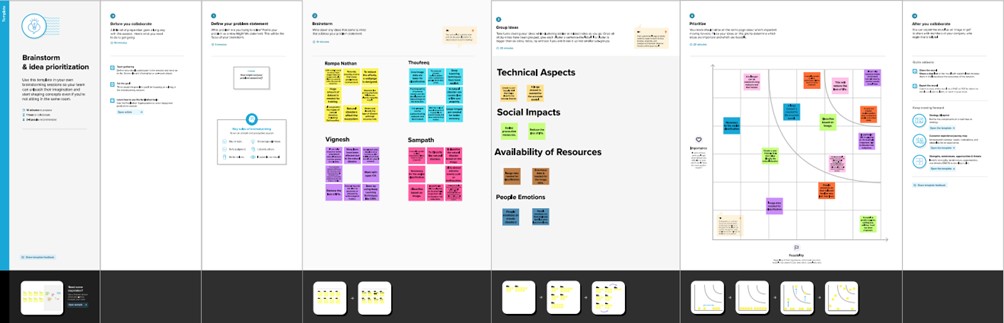
Empathy maps are beneficial in uni ng a team to address the core concerns of the customer and ensuring that this process both documents their frustra ons and provides a consumer-informed solu on.



**3.2 Brainstorm & Idea Priori za on Template:**

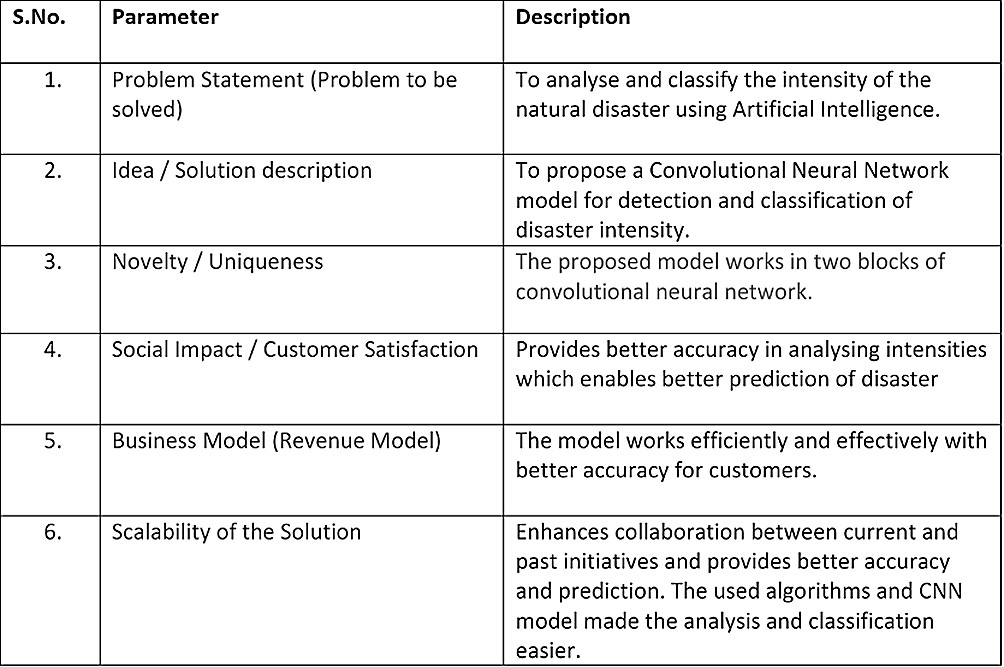
Brainstorming provides a free and open environment that encourages everyone within a team to par cipate in the crea ve thinking process that leads to problem solving. Priori zing volume over value, out-of-the-box ideas are welcome and built upon, and all par cipants are encouraged to collaborate, helping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



##### 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.

1. **Requirement Analysis**
   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

* 1. **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

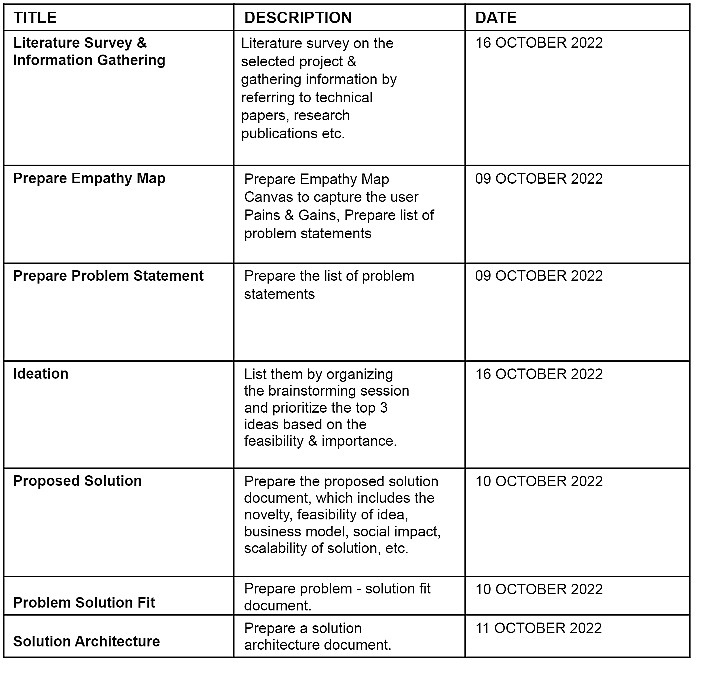
Use the below template to list all the user stories for the product.

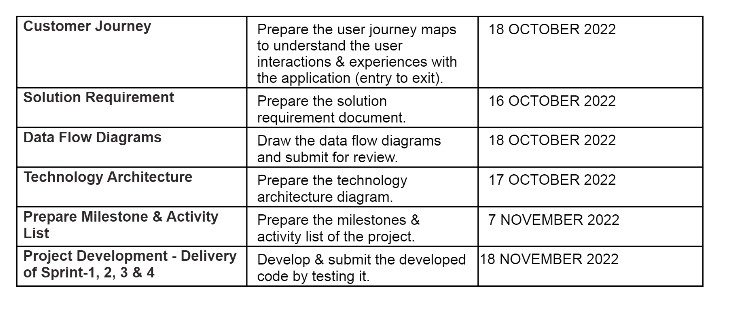
|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| USER TYPE | FUNCTION  AL  REQUIREM  ENT | USER  STORY  NIMBER | USER  STORY/ TASK | | | ACCEPTAN  CE  CRITERIA | | | PRIORITY | RELEASE |
| Customer( Mobile user) | Registrati on | USN-1 | As a user, 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 | | | I can | | | High | Sprint-1 |
|  | will receive |  |  | receive |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  |  | 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 |
| Administrat or |  | 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

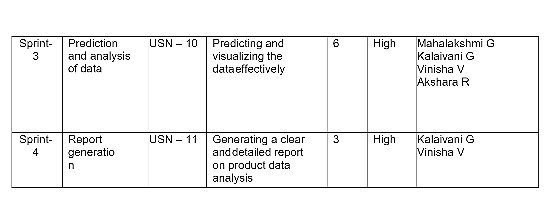
##### 6.1 Sprint Planning & Estimation





6.2 Sprint Delivery Schedule





**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="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBwgHBgkIB wgKCgkLDRYPDQwMDRsUFRAWIB0iIiAdHx8kKDQsJCYxJx8fLT0tMTU3Ojo6Iys/RD84Qz Q5OjcBCgoKDQwNGg8PGjclHyU3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3

Nzc3Nzc3Nzc3Nzc3Nzc3N//AABEIAH8AkwMBIgACEQEDEQH/xAAcAAABBQEBAQAAAAA

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GkyqekpkrhIYpUYFBbcm/Tfoe2DFRlxppI43jHpY+W9rek4frJviNLubsAB8rdv1++Od+a/w8Kg 9/OfW2o3NyeT8/fF2/DJqirzb4FZEVGXUxcXO3AB/tiuV2W31TREXtcoN7784vf4UJSQQSVK sXqZGCybbRjoL2/3x2mUyx2xrWTTEpWRQpp6RrbXL6SfpbHYZY+o3mjHtqx7jLotUurSCBg FmMryxtTuANRB97YNVTyLGTEAWvsDwcVrOWLszGORXSzXjYXNjuMQEMuUiFtZvp22xL nHlwNbcWviHlkytCpi0sHUGwGHa6VvgJ+hANjiJgoBpZz6O2Kb46z80FHLKJEOhSES/Lngn 6/pgzVVDTUccTFrpIA1u1x/vjJPxEzRKvMPg4WV/JkYyMvQ8Bfpv98akFoDl1DV57VxUsDNL WTSEIDawHLMT0+uNf8BeDhkdTLUCQM59CsQDfuQcA/wryBo6GXM5kZJqi8ULW/6Ztq36

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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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iv class="title">Flood<P>Floods are the most frequent type of natural disaster and occur when an 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.

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

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9h

y5Yd5SzPldO7ksxQXYm5wQpPxKC55Y1DWIaHxLWZPIn7TifhOovIWsR/VfqO5++N3Q+ JssrFiSkldndLheG1h6FrWvscJJ4opKqPiRo2oC+pQb88CZg7LltO6sQwVrMDuNxjKTiBxUj wFbW

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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>

</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** | **FUNCTION**  **AL**  **REQUIREM**  **ENT** | **USER**  **STORY**  **NIMBER** | **USER**  **STORY/ TASK** | | | **ACCEPTAN**  **CE**  **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** | | |  | **Medium** | **Sprint-1** |
|  | **can** |  |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **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** | | | **I can**  **display forecasted details about weather.** | **Medium** | **Sprint-3** |
|  | **weather of** |  |

**the**

**plac**

**e**

**8.2 User Accepetance Testing**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **USER TYPE** | **FUNCTION**  **AL**  **REQUIREM**  **ENT** | **USER**  **STORY**  **NIMBER** | **USER**  **STORY/ TASK** | | | **ACCEPTAN**  **CE**  **CRITERIA** | | | **PRIORITY** | **Status** |
| 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** | **Success** |
|  |  |  |  | | |  | | |  |  |
|  | **As a user, I** |  |  | **I can** |  |

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | |  | **USN-2** |  | **will receive** |  |  | **receive** | **i**  **&** | **High** | **Success** |
| **confirmati**  **on email once Ihave registered**  **for the application** | **confirmat on email**  **click**  **confirm** |
|  | | |  | **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** | | |  | **USN-7** | **As a admin** | | | **I can** | | | **Medium** | **Success** |
|  | **tor** |  |  |  |  | **you can** |  |  | **display** |  |  |  |
|  | **provide or display the requested details**  **form user such as**  **displaying forecasted weather of the place** | **forecasted details about weather.** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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 |

1. **Results**

**9.1 Performance metrics**

1. **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

<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: 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: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; 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="data:image/jpeg;base64,/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAkGBwgHBgkIB wgKCgkLDRYPDQwMDRsUFRAWIB0iIiAdHx8kKDQsJCYxJx8fLT0tMTU3Ojo6Iys/RD84Qz Q5OjcBCgoKDQwNGg8PGjclHyU3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3Nzc3

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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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iv class="title">Flood<P>Floods are the most frequent type of natural disaster and occur when an 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.

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

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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>

</div>

</div>

</body>

</html>

intro.html

<html>

<head><title>homepage</title>

<style>

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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

{

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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>

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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">

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</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