Date	17 NOVEMBER 2022
Team ID	PNT2022TMID38822
Project Name	Emerging Methods for Early Detection of Forest Fires

MILESTONE LIST

Milestone Name	Milestone Number	Description	Mandatory
Project Objectives	M-01	We will be able to learn to prepare dataset, image processing, working with CNN layers, read images using OpenCV and CNN for computer vision AI	Yes
Project Flow	M-02	A project management process flowchart is a graphical aid, designed to visualize the sequence of steps to be followed throughout the project management process	Yes
Pre-Requisites	M-03	To complete this project, we should have known following project such as Keras, TensorFlow, Python ,Anaconda, OpenCV, Flask, Scikitlearn etc.	Yes
Prior Knowledge	M-04	One should have knowledge on the Supervised Learning, CNN and Regression Classification and Clustering, ANN	Yes
Data collection	M-05	We can collect dataset from different open sources like kggle.com, UCI machine learning etc.	Yes

Image Preprocessing	M-06	Importing the ImageDataGenerator libraries, Define Parameters/Arguments for ImageDataGenerator class, Applying Image Data Generator Functionality to trainset and test set	Yes
Model Building	M-07	Importing the model building libraries, Initializing the model, Adding CNN layers, Adding Dense layers, Configuring the learning Process, Train the model, Save the model, Predictions.	Yes
Video Analysis	M-08	Open cv for video processing, creating an account in twillo service and sending alert message	Yes
Train CNN model	M-09	Register for IBM Cloud and train Image Classification Model	Yes
Ideation Phase	M-10	Prepare Literature Survey on the selected Project and Information Gathering, empathy map and ideation	Yes
Project Design Phase I	M-11	Prepare Proposed Solution, Problem- Solution Fit, Solution Architecture	Yes
Project Design Phase II	M-12	Prepare Customer journey, functional requirements, Dataflow diagram and Technology Architecture	Yes
Project Planning Phase	M-13	Prepare Milestone list, Activity list and Sprint Delivery Plan	Yes
Project Development Phase	M-14	Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4	Yes

Activity Number	Activity	Sub Activity	Status
1.	PROJECT OBJECTIVES		Completed
2.	PROJECT FLOW		Completed
3.	PRE-REQUISITES		Completed

4.	DATA COLLECTION	4.1 Download the Dataset	Completed

ACTIVITY LIST

		5.1 Import ImageDataGenerator Library.	
		5.2 Define the Parameters/ Arguments for ImageDataGenerator class.	
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5.	IMA CE DDEDD OCEGGIAC	5.3 Applying ImageDataGenerator Functionality to trainset and test set.	I. Durana
3.	IMAGE PREPROCESSING	and test set.	In Progress
		6.1 Importing the model building libraries.	
		6.2 Initializing the model.	
		6.3 Adding CNN layers.	
		6.4 Adding dense layers.	
		6.5 Configuring the learning process 6.6 Training	
		the model.	
		6.7 Saving the model.	
6.	MODEL BUILDING	6.8 Predictions.	In Progress
		7.1 OpenCV for video processing.	
		7.2 Creating an account in Twilio service.	
7.	VIDEO ANALYSIS	7.3 Sending alert message.	In Progress
		8.1 Train image classification model.	
8.	TRAIN CNN MODEL ON IBM	8.2 Register for IBM cloud.	In Progress
		9.1 Literature Review.	
		9.2 Empathy map.	
9.	IDEATION PHASE	9.3 Ideation.	Completed

10.	PROJECT DESIGN PHASE – I	10.1 Proposed Solution. 10.2 Problem solution. 10.3 Solution Architecture	Completed
11.	PROJECT DESIGN PHASE -II	11.1 Customer journey.11.2 Functional requirement.11.3 Data flow Diagrams.11.4 Technology Architecture.	Completed
12.	PROJECT PLANNING PHASE	12.1 Prepare milestone and activity list 12.2 Sprint delivery plan.	Completed
13.	PROJECT DEVELOPMENT PHASE	13.1 Project development-Delivery of Sprint-1. 13.2 Project development-Delivery of Sprint-2. 13.3 Project development-Delivery of Sprint-3 13.4 Project development-Delivery of Sprint-4.	In Progress