Team ID	Team ID : PNT2022TMID31966
Project Name	Emerging Methods for Early Detection of Forest Fires
Team members	1. Deepan G (Leader) 2. Manojkumar M 3. Pranesh kumar N 4. Ruthresan V

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 CNNfor computervision 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, Scikit-learn etc.…	Yes	

Data collection	M-04	We can collect dataset from different open sources like kaggle.com, UCI machine learning etc.	Yes
Image Preprocessing	M-05	Importing the ImageDataGenerator libraries, Define Parameters/Arguments for ImageDataGenerator class, Applying Image Data Generator Functionality to trainset and test set	Yes
Model Building	M-06	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-07	Opencv for video processing, creating an account in twilio service and sending alert message	Yes
Train CNN model	M-08	Register for IBM Cloud and train Image Classification Model	Yes
Ideation Phase	M-09	Prepare Literature Survey on the selected Project and Information Gathering, empathy map and ideation	Yes
Project Design Phase-I	M-10	Prepare Proposed solution , problem-solution fit and Solution Architecture	Yes
Project Design Phase-II	M-11	Prepare Customer journey ,functional requirements, Dataflow diagram and Technology Architecture	Yes
Project Planning Phase	M-12	Prepare Milestone list , Activity list and Sprint Delivery Plan	Yes
Project Development Phase	M-13	Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4	Yes

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ACTIVITY LIST

Activity Number	Activity	Sub Activity	Assigned To	Status
1.	PROJECT OBJECTIVES		All Members	Completed
2.	PROJECT FLOW		All Members	Completed
3.	PRE-REQUISITES		All Members	Completed
4.	DATA COLLECTION	4.1 Download the Dataset	All Members	Completed
5.	IMAGE PREPROCESSING	Import the ImageDataGenerator Library. Define the Parameters/Arguments for ImageDataGenerator class. Applying ImageDataGenerator Functionality to trainset and testset.	All Members	Completed
6.	MODEL BUILDING	Importing the model building libraries. Initializing the model. Adding CNN layers. Adding dense layers. Configuring the	All Members	Completed

		learning process. Training the model. Saving the model. Predictions.		
7.	VIDEO ANALYSIS	OpenCV for video processing. Creating an account in Twilio service. Sending alert message.	All Members	Completed
8.	TRAIN CNN MODEL ON IBM	Train image classification model. Register for IBM cloud.	All Members	Completed
9.	IDEATION PHASE	Literature Review. Empathy map. Ideation.	All Members	Completed
10.	PROJECT DESIGN PHASE – I	Proposed Solution. Problem solution fit. Solution Architecture.	All Members	Completed
11.	PROJECT DESIGN PHASE -II	Customerjourney. Functional requirement. Data flow Diagrams. Technology Architecture.	All Members	Completed
12.	PROJECT PLANNING PHASE	Prepare milestone and activity list. Sprint delivery plan.	All Members	Completed

| 13. | PROJECT DEVELOPMENT PHASE | Project development-Delivery ofSprint-1. Project development-Delivery ofSprint-2. Project development-Delivery ofSprint-3. Project development-Delivery ofSprint-4. | All Members | Completed |