Team ID	PNT2022TMID48934
Project Name	**Emerging Methods for Early Detection of Forest Fires**
Team members	VARSHINI M ARVUSELVI S HEMANISHA V MOURIYA S

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 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	

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 kaggle.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	Opencv for video processing, creating an account in twilio 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 and 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 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	VARSHINI M	Completed
5.	IMAGE PREPROCESSING	Import the ImageDataGenerator Library. Define the Parameters/Arguments for ImageDataGenerator class. Applying ImageDataGenerator Functionality to trainset and testset.	ARIVU SELVI S VARSHINI M	Completed
6.	MODEL BUILDING	Importing the model building libraries. Initializing the model. Adding CNN layers. Adding dense layers. Configuring the	MOURIYA S HEMANISHA V	Completed

		learning process. Training the model. Saving the model. Predictions.		
7.	VIDEO ANALYSIS	OpenCV for video processing. Creating an accountin Twilio service. Sending alert message.	ARIVU SELVI S VARSHINI M	In Progress
8.	TRAIN CNN MODEL ON IBM	Train image classification model. Register for IBM cloud.	MOURIYA S HEMANISHA V	In Progress
9.	IDEATION PHASE	Literature Review. Empathy map. Ideation.	ARIVU SELVI S VARSHINI M	Completed
10.	PROJECT DESIGN PHASE – I	Proposed Solution. Problem solution fit. Solution Architecture.	MOURIYA S HEMANISHA V	Completed
11.	PROJECT DESIGN PHASE -II	Customer journey. Functional requirement. Data flow Diagrams. Technology Architecture.	ARIVU SELVI S VARSHINI M	Completed
12.	PROJECT PLANNING PHASE	Prepare milestoneand activity list. Sprint delivery plan.	MOURIYA S HEMANISHA V	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.	ARIVU SELVI S VARSHINI M	In Progress