Team ID	PNT2022TMID30054
Project Name	Emerging Methods for Early Detection of Forest Fires
Team Lead & members	LOGESH K MURALIDHARAN N VIGNESH K VIGNESH G

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	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	Opency 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	All members	Completed
5.	IMAGE PREPROCESSING	5.1 Import the ImageDataGenerator Library. 5.2 Define the Parameters/Arguments for ImageDataGenerator class. 5.3 Applying ImageDataGenerator Functionality to trainset and testset.	Keerthana .p Harini.A Alin asha.A	Completed

6.	MODEL BUILDING	6.1 Importing the model building libraries.6.2 Initializing the model.	All members	In Progress
		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. 6.8 Predictions.		
7.	VIDEO ANALYSIS	7.1 OpenCV for video processing.7.2 Creating an account in Twilio service7.3 Sending alert message.	All members	In Progress
8.	TRAIN CNN MODEL ON IBM	8.1 Train image classification model. 8.2 Register for IBM cloud.	All members	In Progress
9.	IDEATION PHASE	9.1 Literature Review.9.2 Empathy map.9.3 Ideation.	All members	Completed

10.	PROJECT DESIGN PHASE – I	Total Troposous Solutions	Alin asha.A Harini.A	Completed
11.	DESIGN PHASE -II 1	1.1 Customer journey. 11.2 functional requirement. 1.3 Data flow Diagrams. 1.4 Technology architecture.	All members	Completed
12.	l a	2.1 Prepare milestone and ctivity list. 2.2 Sprint delivery plan.	Keerthana.p Alin asha.A	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.	All Members	In Progress