

TEAM ID	PNT2022TMID47894
PROJECT NAME	Emerging Methods for Early Detection of Forest Fires
TEAM MEMBER	Lakshmanaswamy Hariharan Akilan Ayyanar pandi.

MILESTONE LIST

Milestone Name	Milestone Number	Description	Mandatory
Project objectives	M-1	we will be able to know how to do image processing. We will understand how CNN layers are work. You will be able to know how to read image using OpenCV.	yes
Project Flow	M-2	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-3	To complete this project, we should have known following project such as Kera's, TensorFlow, Python, Anaconda, OpenCV, Flask, Scikit-learn etc....	yes
Prior Knowledge	M-4	One should have knowledge on the Supervised Learning, CNN and Regression Classification and Clustering, ANN	yes
Data collection	M-5	We can collect dataset from different open sources like kaggle.com, UCI machine learning etc.	yes
Image Pre-processing	M-6	Importing the ImageDataGenerator libraries, DefineParameters/Arguments for ImageDataGenerator class, Applying Image Data Generator Functionality to trainset and test set	yes
Model Building	M-7	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-8	OpenCV for video processing, creating an account in twilio service and sending alert message	yes
Train CNN model	M-9	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

s.no	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	Lakshmanaswamy Hariharan	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 test set	All Members	In Progress
6	MODEL BUILDING	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. 6.8 Predictions.	All Members	In Progress

7	VIDEO ANALYSIS	7.1 OpenCV for video processing. 7.2 Creating an account in Twilio service. 7.3 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	10.1 Proposed Solution. 10.2 Problem solution fit. 10.3 Solution Architecture.	All Members	Completed
11	PROJECT DESIGN PHASE -II	11.1 Customer journey. 11.2 Functional requirement. 11.3 Data flow Diagrams. 11.4 Technology Architecture.	All Members	Completed
12	PROJECT PLANNING PHASE	12.1 Prepare milestone and activity list. 12.2 Sprint delivery plan	All Members	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