

<b>Team ID</b>	<b>PNT2022TMID48908</b>
<b>Project Name</b>	<b>Emerging Methods for Early Detection of Forest Fires</b>
<b>Team members</b>	<b>NARMATHA K</b> <b>BAVITHA C</b> <b>CHITRA M</b> <b>RAMYA K</b> <b>VINOTHINI R</b>

## 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	

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## ACTIVITY LIST

Activity Number	Activity	Sub Activity	Assigned To	Status
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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	NARMATHA K	Completed
5.	IMAGE PREPROCESSING	Import the ImageDataGenerator Library. Define the Parameters/Arguments for ImageDataGenerator class. Applying ImageDataGenerator Functionality to trainset and testset.	NARMATHA K BAVITHA C CHITRA M RAMYA K VINOTHINI R	Completed
6.	MODEL BUILDING	Importing the model building libraries. Initializing the model. Adding CNN layers. Adding dense layers. Configuring the	NARMATHA K BAVITHA C CHITRA M RAMYA K VINOTHINI R	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.	NARMATHA K BAVITHA C CHITRA M RAMYA K VINOTHINI R	In Progress
8.	TRAIN CNN MODEL ON IBM	Train image classification model. Register for IBM cloud.	BAVITHA C CHITRA M RAMYA K VINOTHINI R	In Progress
9.	IDEATION PHASE	Literature Review. Empathy map. Ideation.	NARMATHA K BAVITHA C CHITRA M RAMYA K VINOTHINI R	Completed
10.	PROJECT DESIGN PHASE – I	Proposed Solution. Problem solution fit. Solution Architecture.	NARMATHA K BAVITHA C CHITRA M RAMYA K VINOTHINI R	Completed

11.	PROJECT DESIGN PHASE -II	Customer journey. Functional requirement. Data flow Diagrams. Technology Architecture.	NARMATHA K BAVITHA C CHITRA M RAMYA K VINOTHINI R	Completed
12.	PROJECT PLANNING PHASE	Prepare milestone and activity list. Sprint delivery plan.	NARMATHA K BAVITHA C CHITRA M RAMYA K	Completed
13.	PROJECT DEVELOPMENT PHASE	Project developmentDelivery of Sprint-1. Project developmentDelivery of Sprint-2. Project developmentDelivery of Sprint-3. Project developmentDelivery of Sprint-4.	NARMATHA K BAVITHA C CHITRA M RAMYA K VINOTHINI R	In Progress

