

## MILESTONE LIST

Project Name	Emerging Methods For Early Detection Of Forest Fires	Date	21/10/2022		
Project Domain	Artificial Intelligence	No of Members	5 (HARI HARAN S,JEYA SHEELAN J,HEMANANTH P,MOHAMED ANAS A,MOHAMED KATHAR MOHAIDEEN A)		
Project Leader	Mohammed Kathar Mohaideen A	Project Owner/Client	IBM		
Milestone Name	Milestone Number	Description	Mandatory	Optional	
Project Objectives	M-001	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-002	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-003	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-004	One should have knowledge on the Supervised Learning ,CNN and Regression Classification and Clustering, ANN	Yes		
Data collection	M-005	We can collect dataset from different open sources like kaggle.com, UCI machine learning etc	Yes		
Image Preprocessing	M-006	Importing the ImageDataGenerator libraries, Define Parameters/Arguments for ImageDataGenerator class, Applying Image Data Generator Functionality to trainset and testset	Yes		
Model Building	M-007	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-008	Opencv for video processing, creating an account in twilio service and sending alert message	Yes		
Train CNN model	M-009	Register for IBM Cloud and train Image Classification Model	Yes		

Ideation Phase	M-010	Prepare Literature Survey on the selected Project and Information Gathering, empathy map and ideation	Yes	
Project Design Phase-I	M-011	Prepare Proposed solution , problem-solution fit and Solution Architecture	Yes	
Project Design Phase-II	M-012	Prepare Customer journey ,functional requirements,Data flow diagram and Technology Architecture	Yes	
Project Planning Phase	M-013	Prepare Milestone list , Activity list and Sprint Delivery Plan	Yes	
Project DevelopmentPhase	M-014	Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4	Yes	

## ACTIVITY LIST

<b>Project Name</b>		Emerging Methods for Early Detection of Forest Fires	<b>Date</b>		21/10/2022
<b>Project Number</b>		24060-1659936453	<b>No of Members</b>		4
<b>Project Leader</b>		Rakshitha J	<b>Project Owner/Client</b>		IBM
Activity Number	Activity Name	Detailed Activity Description	Assigned To		Status / Comments
1.1	Access Resources	Access the resources (courses) in project dashboard.	All Members		COMPLETED
1.2	Rocket chat registration	Join the mentoring channel via platform & rocket-chat mobile app.	All Members		COMPLETED
1.3	Access workspace	Access the guided project workspace.	All Members		COMPLETED
1.4	IBM Cloud registration	Register on IBM Academic Initiative & Apply Feature code for IBM Cloud Credits.	All Members		COMPLETED
1.5	Project Repository Creation	Create GitHub account & collaborate with Project Repository in project workspace.	All Members		COMPLETED
1.6	Environment Setup	Set-up the Laptop / Computers based on the pre-requisites for each technology track.	All Members		COMPLETED

<b>2.1</b>	Literature survey	Literature survey on the selected project & Information Gathering.	Pavithra M Yukttha Sree RS	COMPLETED
<b>2.2</b>	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
<b>2.3</b>	Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	Ramya N Rakshitha J	COMPLETED
<b>2.4</b>	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
<b>2.5</b>	Brainstorming	List the ideas (at least 4 per each team member) by	All Members	COMPLETED

		organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.		
<b>2.6</b>	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
<b>3.1</b>	Proposed Solution Document	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	Ramya N Rakshitha J	COMPLETED
<b>3.2</b>	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
<b>3.3</b>	Problem - Solution fit & Solution Architecture	Prepare problem - solution fit document & Solution Architecture.	Pavithra M Yukttha Sree RS	COMPLETED

<b>3.4</b>	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
<b>4.1</b>	Customer Journey Map	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	All Members	COMPLETED
<b>4.2</b>	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
<b>4.3</b>	Functional Requirements & Data Flow Diagrams	Prepare the Functional Requirement Document & DataFlow Diagrams.	Pavithra M Yukttha Sree RS Ramya N	IN PROGRESS
<b>4.4</b>	Technology Architecture	Prepare Technology Architecture of the solution.	Ramya N	COMPLETED
<b>4.5</b>	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
<b>5.1</b>	Milestone & Activity List	Prepare Milestone & Activity List.	Pavithra M Yukttha Sree RS	COMPLETED
<b>5.2</b>	Sprint Delivery Plan	Prepare Sprint Delivery Plan.	Ramya N Yukttha Sree RS	IN PROGRESS

<b>6</b>	Data Collection	Collect datasets from different open sources like kaggle.com, data.gov, UCI machine learning repository, etc.	Ramya N Pavithra M	COMPLETED
<b>7.1</b>	Image Preprocessing	Importing the ImageDataGenerator Library	Pavithra M Yukttha Sree RS	IN PROGRESS
<b>7.2</b>	Image Preprocessing	Define the parameters/arguments for ImageDataGenerator class.	Ramya N Rakshitha J	IN PROGRESS
<b>7.3</b>	Image Preprocessing	Applying ImageDataGenerator functionality to trainset and test set.	Ramya N Yukttha Sree RS	IN PROGRESS

<b>8.1</b>	Model Building	Importing the model building libraries.	Pavithra M Yukttha Sree RS	IN PROGRESS
<b>8.2</b>	Model Building	Initializing the model.	Ramya N Rakshitha J	IN PROGRESS
<b>8.3</b>	Model Building	Adding CNN Layers.	Pavithra M Yukttha Sree RS	IN PROGRESS
<b>8.4</b>	Model Building	Adding Dense Layers	Ramya N Rakshitha J	IN PROGRESS
<b>8.5</b>	Model Building	Configuring the learning process	Pavithra M Yukttha Sree RS	IN PROGRESS
<b>8.6</b>	Model Building	Training the Model	Ramya N Yukttha Sree RS	IN PROGRESS
<b>8.7</b>	Model Building	Save the model	Rakshitha J Yukttha Sree RS	IN PROGRESS
<b>8.8</b>	Model Building	Predictions	Rakshitha J Yukttha Sree RS	IN PROGRESS
<b>9.1</b>	Video Analysis	OpenCV for video processing.	Ramya N Rakshitha J	IN PROGRESS
<b>9.2</b>	Video Analysis	Creating an account in Twilio service.	Ramya N Rakshitha J	IN PROGRESS
<b>9.3</b>	Video Analysis	Sending alert message.	Pavithra M Yukttha Sree RS	IN PROGRESS
<b>10.1</b>	Train CNN Model on IBM	Register for IBM Cloud	All Members	IN PROGRESS
<b>10.2</b>	Train CNN Model on IBM	Train Image Classification Model	All Members	IN PROGRESS