MILESTONE LIST

Project Name	Emerging Methods For Early Detection Of Forest Fires	Date	05/11/22		
Project Domain	Artificial Intelligence	No of Members	5		
Project Leader	Kaviya S	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

Project Name	Emerging Methods for Early Detection of Forest Fires	Date	21/10/2022
Project Number	PNT2022TMID08411	No of Members	5
Project Leader	Kaviya S	Project Owner/Client	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

2.1	Literature survey	Literature survey on the selected project & Information Gathering.	Kaviya S,Lavanya N	COMPLETED
2.2	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
2.3	Empathy Map	PrepareEmpathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	Jamila.R,Prapha.R	COMPLETED
2.4	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
2.5	Brainstorming	List the ideas (at least 5 per each team member) by	All Members	COMPLETED

		organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.		
2.6	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
3.1	Proposed Solution Document	Preparethe proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	Kaviya S	COMPLETED
3.2	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
3.3	Problem - Solution fit & Solution Architecture	Prepare problem - solution fit document & Solution Architecture.	Jamila R	COMPLETED

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3.4	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
4.1	Customer Journey Map	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	Santhanapriya G	COMPLETED
4.2	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
4.3	Functional Requirements & Data Flow Diagrams	Preparethe Functional Requirement Document & DataFlow Diagrams.	Prapha.R,Lavanya.N,S.Kaviya	IN PROGRESS
4.4	Technology Architecture	Prepare Technology Architecture of the solution.	Jamila.R,Santhanapriya.G	COMPLETED
4.5	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
5.1	Milestone & Activity List	Prepare Milestone & Activity List.	Kaviya.S,Prapha.R	COMPLETED
5.2	Sprint Delivery Plan	Prepare Sprint Delivery Plan.	Lavanya.N,Jamila.R	IN PROGRESS

6	Data Collection	Collect datasets from different open sourceslike kaggle.com, data.gov, UCI machine learning repository, etc.	Jamila.R,Prapha.R	COMPLETED
7.1	Image Preprocessing	Importing the ImageDataGenerator Library	Lavanya.N,Santhanapriya.G	IN PROGRESS
7.2	Image Preprocessing	Define the parameters/arguments for ImageDataGenerator class.	Kaviya.S,Jamila.R	IN PROGRESS
7.3	Image Preprocessing	Applying ImageDataGenerator functionality to trainset and test set.	Lavanya.N,Prapha.R	IN PROGRESS

Milestone List

8.1	Model Building	Importing the model building libraries.	Kaviya.S,Santhanapriya.G	IN PROGRESS
8.2	Model Building	Initializing the model.	Lavanya.N,Prapha.R	IN PROGRESS
8.3	Model Building	Adding CNN Layers.	Kaviya.S,Jamila.R	IN PROGRESS
8.4	Model Building	Adding Dense Layers	Lavanya.N,Santhanapriya.G	IN PROGRESS
8.5	Model Building	Configuring the learning process	Kaviya.S,Prapha.R	IN PROGRESS
8.6	Model Building	Training the Model	Lavanya.N,Santhanapriya.G	IN PROGRESS
8.7	Model Building	Save the model	Kaviya.S,Jamila R	IN PROGRESS
8.8	Model Building	Predictions	Lavanya.N,Prapha.R	IN PROGRESS
9.1	Video Analysis	OpenCV for video processing.	Kaviya.S,Santhanapriya.G	IN PROGRESS
9.2	Video Analysis	Creating an account in Twilio service.	Lavanya.N,Jamila.R	IN PROGRESS
9.3	Video Analysis	Sending alert message.	Kaviya.S,Prapha.R	IN PROGRESS
10.1	Train CNN Model on IBM	Register for IBM Cloud	All Members	IN PROGRESS
10.2	Train CNN Model on IBM	Train Image Classification Model	Jamila.R,Santhanapriya.G	IN PROGRESS

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