

Project Planning Phase Milestone and Activity List

Date	22 October 2022
Team ID	PNT2022TMID26119
Project Name	Emerging Methods for Early Detection of Forest Fires.

MILESTONE LIST:

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	Open cv for video processing, creating an account in twilio service and Sending alert messages.	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 Development Phase	M-014	Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4	Yes	

ACTIVITY LIST:

Activity Number	Activity Name	Detailed Activity Description	Task Assigned	Status
1.1	Access Resources	Access the resources (courses) in project dashboard.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
1.2	Rocket chat registration	Join the mentoring channel via platform& rocket-chat mobile app.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
1.3	Access workspace	Access the guided project workspace.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
1.4	IBM Cloud registration	Register on IBM Academic Initiative &Apply Feature code for IBM Cloud Credits.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
1.5	Project Repository Creation	Create GitHub account & collaborate with Project Repository in project workspace.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
1.6	Environment Setup	Set-up the Laptop / Computers based on the pre-requisites for each technology track.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
2.1	Literature survey	Literature survey on the selected project & Information Gathering.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
2.2	Technology Training	Attend the technology trainings as per the training Calendar.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
2.3	Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
2.4	Technology Training	Attend the technology trainings as per the training Calendar.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
2.5	Brainstorming	List the ideas (at least 4 per each team member) by organizing the brainstorm session and prioritize the ideas	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
2.6	Technology Training	Attend the technology trainings as per the training Calendar.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED

3.1	Proposed Solution Document	Prepare the proposed solution document, which includes the novelty, feasibility of idea, business model, social impact, scalability of solution, etc.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
3.2	Technology Training	Attend the technology trainings as per the training Calendar.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
3.3	Problem - Solution fit & Solution Architecture	Prepare problem - solution fit document& Solution Architecture.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
3.4	Technology Training	Attend the technology trainings as per the training Calendar.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
4.1	Customer Journey Map	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
4.2	Technology Training	Attend the technology trainings as per the training Calendar.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
4.3	Functional Requirements & Data Flow Diagrams	Prepare the Functional Requirement Document & Data Flow Diagrams.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
4.4	Technology Architecture	Prepare Technology Architecture of the solution.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
4.5	Technology Training	Attend the technology trainings as per the training Calendar.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
5.1	Milestone& Activity List	Prepare Milestone & Activity List.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
5.2	Sprint Delivery Plan	Prepare Sprint Delivery Plan.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	COMPLETED
6	Data Collection	Collect datasets from different open sources like kaggle.com, data.gov, UCI machine learning repository, etc.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
7.1	Image Preprocessing	Importing the ImageDataGenerator Library	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
7.2	Image Preprocessing	Define the parameters/arguments for ImageDataGenerator class.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS

7.3	Image Preprocessing	Applying ImageDataGenerator functionality to trainset and test set.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.1	Model Building	Importing the model building libraries.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.2	Model Building	Initializing the model.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.3	Model Building	Adding CNN Layers.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.4	Model Building	Adding Dense Layers	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.5	Model Building	Configuring the learning process	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.6	Model Building	Training the Model	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.7	Model Building	Save the model	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
8.8	Model Building	Predictions	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
9.1	Video Analysis	OpenCV for video processing.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
9.2	Video Analysis	Creating an account in Twilio service.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
9.3	Video Analysis	Sending alert message.	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
10.1	Train CNN Model on IBM	Register for IBM Cloud	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS
10.2	Train CNN Model on IBM	Train Image Classification Model	Veeraraghavan A Thamarai kannan G Yusuf sameer khan G Sriram B	IN PROGRESS