Project Planning Phase

Mile stone & Activity List

Date	06 November 2022
Team Id	PNT2022TMID50335
Project Name	Emerging methods for early detection of forest fire
Team members	Azhagu Selvi.M Sundari.R Surya Prabha.S Umamaheshwari.M

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 OpenCV and CNN for computer visionAI	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-Requistes	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 Image Data Generator libraries,Define Parameters/ Arguments for Image	Yes	

		DataGenerator class,Applying ImageData Generator Functionality to Trainset and Testset.		
Model Building	M-07	Importing the model building libraries, Initialization the model , Adding CNN layers,Adding 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 Image Classification Model	Yes 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 map, Prepare Functional requirements and , Dataflowdiagram and Technology Architecture	Yes	
Project Planning Phase	M-13	Prepare Milestone list and 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

Activity Number	Activity	Sub Activity	Assigned To	Status
1.	Project Objectives		All members	In Progress
2.	Project flow		All members	In Progress
3.	Pre-Requisites		All members	Completed
4.	Data Collection	4.1 Downlaod the data set	All members	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 testset.	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	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		In Progess