Project Planning Phase
Milestone & Activity list

Date	3 October 2022
Team ID	PNT2022TMID08041
Project Name	Emerging methods for early detection of forest fires.

Milestone List

Milestone name	Milestone number	Description	Mandatory
Project Objectives	M-01	We will be able to leam to prepare dataset, image processing, working with CNN layers, read images using OpenCV and CNN for computer vision AI	Yes
Project Flow	M-02	A project management process flowchart is a graphical aid, designed to visualise the sequence of steps to be followed throughout the project management process	Yes
Prerequisite	M-03	To complete this project, we should have known the following projects such as Keras, TensorFlow, CNN, Twilio 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 processing	M-06	Importing the ImageDataGenerator libraries, Define Parameters/Arguments for ImageDataGenerator class, Applying ImageData Generator Functionality to train set and test set	Yes
Model Building	M-07	Importing the model building libraries, Initialising 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 in IBM	M-09	Register for IBM Cloud and train Image Classification Model	Yes
Ideation phase	M-10	Prepare Literature Survey on the selected	Yes

		Project and Information Gathering, empathy map and ideation	
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

Activity List

Activity number	Activity	Sub activity	Assigned member	Status
1.	Project Objectives		Surya	Completed
2.	Project Flow		Sheshank	Completed
3.	Prerequisite		Shiksha	Completed
4.	Prior Knowledge		Swathi Shree	Completed
5.	Data collection	5.1 Download the Dataset	Surya	Completed
6.	Image processing	6.1. Import the ImageDataGenerator Library.	Sheshank	In-progress
		6.2. Define the Parameters/Arguments for ImageDataGenerator class.	Shiksha	In-progress
		6.3. Applying ImageDataGenerator Functionality to trainset and testset.	Swathi Shree	In-progress
7.	Model Building	7.1. Importing the model building libraries.	Surya	In-progress
		7.2. Initialising the model.	Shiksha	In-progress
		7.3. Adding CNN layers.	Swathi Shree	In-progress
		7.4. Adding dense layers.	Sheshank	In-progress
		7.5. Configuring the learning process.	Shiksha	In-progress
		7.6. Training the model.	Swathi Shree	In-progress

		7.7. Saving the model.	Surya	In-progress
		7.8. Predictions.	Sheshank	In-progress
8.	Video analysis	8.1 OpenCV for video processing.	Swathi Shree	In-progress
		8.2. Creating an account in Twilio service.	Shiksha	In-progress
		8.3. Sending alert messages.	Sheshank	In-progress
9.	Train CNN model in IBM	9.1. Train image classification model.	Swathi Shree, Shiksha	In-progress
		9.2. Register for IBM cloud.	Surya	Completed
10.	Ideation phase	10.1. Literature Review.	Swathi Shree, Shiksha	Completed
		10.2. Empathy map.	Surya, Sheshank	Completed
		10.3. Ideation.	All	Completed
11.	Project design phase-I	10.1 Proposed Solution	Sheshank	Completed
		10.2 Problem solution fit.	Sheshank, Surya	Completed
		10.3 Solution Architecture.	Swathi Shree, Shiksha	Completed
12.	Project Design Phase-II	11.1 Customer journey.	Sheshank, Surya	Completed
		12.2. Functional requirement.	Swathi Shree, Shiksha	Completed
		12.3. Data flow Diagrams.	Swathi Shree, Shiksha	Completed
		12.4. Technology Architecture.	Sheshank	Completed
13.	Project Planning Phase	13.1. Prepare milestone and activity list.	Swathi Shree, Shiksha	Completed
		13.2. Sprint delivery plan	Sheshank, Surya	Completed
14.	Project Development Phase	14.1.Project development-Delivery of Sprint-1.	All	In-progress
		14.2.Project development-Delivery of Sprint-2.	All	In-progress
		14.3. Project development-Delivery of Sprint 3.	All	In-progress
		14.4.Project development-Delivery of Sprint-4.	All	In-progress