EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE

MILESTONE AND ACTIVITY LIST

Project Name	Detection Of Forest Fires	Date	26/10/2022
Project Domain	Artificial Intelligence	No of Members	4
Project	Devi Sravanti Gubbala	Project	IBM
Leader		Owner/Client	

Milestone Name	Milesto	Description	Mandatory	Optional
	ne No:		_	
Project	M-001	Be able to learn to prepare dataset, image processing, working with CNN layers, read images using Open CV	Yes	-
Objectives		and CNN forcomputer vision AI		
Project Flow	M-002	A project management process flowchart is a graphical	Yes	
		aid, designed to visualize the sequence of steps to be		
		followed throughout the project management process		
Pre-Requisites	M-003	To complete this project we should have known	Yes	
_		following projectsuch as Keras, Tensor flow,		
		Python, Anaconda, Open CV, Flask,		
		Scikit-learn etc		
Prior			Yes	
Knowledge		,CNN and Regression Classification and Clustering, ANN		
Data collection	M-005	We can collect dataset from different open sources like kaggle.com, UCI machine learning etc	Yes	
Image	M-006	Importing the Image Data Generator libraries, Define	Yes	
Preproce		Parameters/Arguments for Image Data Generator class,		
ssig		Applying Image Data Generator Functionality to		
		trainset and test set		
Model Building	M-007 Importing the model building libraries, Initializing		Yes	
		the model, Adding CNN layers, Adding Dense		
		layers, Configuring the learning Process, Train the		

		model, Save the model, Predictions.	
Video Analysis	M-008	Open cv 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 InformationGathering, 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

ProjectName	Emerging Methods for Early Detection of Forest Fires	Date	26/10/2022
Projec t No	19171-1659694051	No of Members	4
Proje ct Lead	Devi Sravanti Gubbala	Project Owner/Cli ent	IBM

Activi ty Numb er	Activity Name	Detailed Activity Description	Assigned To	Status / Comments
1.1	Access Resources	Access the resources(courses) inproject dashboard.	All Members	COMPLETED
1.2	Rocket chat registrati on	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 registrati on	Register on IBM Academic Initiative & Apply Feature code for IBM Cloud Credits.	All Members	IN PROGRESS
1.5	Project Repository Creation	Create GitHub account & collaborate with Project Repository in project	All Members	COMPLETED

		workspace.		
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.	All Members	COMPLETED
2.2	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED

		Duanana Emandia Man		
		Prepare Empathy Map		
2.3	Empathy Map	Canvas to capture the user	All Members	COMPLETED
		Pains &		
		Gains, Prepare list of problemstatements		
2.4	Toolegeleer	problem statements	A 11 M o reals ours	COMDITEED
2.4	Technology	Attend the technology trainings	All Members	COMPLETED
	Training	as per the		
		training Calendar.		
	Brainstorming		All Members	
	Dramstorning	List the ideas (at least 4 per each	7 m Wembers	
		team member) by organizing		
2.5		the brainstorming session and		IN PROGRESS
		prioritize the		
		top 3 ideas based on the feasibility & importance.		
			All Members	
	2.6 Technology Training	Attend the technology	7 m Wembers	COMPLETED
2.6		trainings as perthe training		COMPLETED
		Calendar.		
	Proposed	Prepare the proposed solution	All	
	Solution	document, which includes the	Members	
3.1	Document	novelty, feasibility of idea,		COMPLETED
		business model, social impact,		
		scalability of solution,		
		etc.		
	T11 T'	Attend the technology	All Members	
3.2	Technology Training	trainings as perthe training		COMPLETED
3.2		Calendar.		COM ELIED
	Problem -	Calchuar.	All	
2.2		Prepare problem - solution		COMPLETED
3.3	Solution fit&	fitdocument &	Members	COMPLETED
	Solution	Solution Architecture.		
	Architecture			
	Technology Training	Attend the technology per		
3.4	1 comology Training	the training Calendar.	All Members	COMPLETED
				<u> </u>

4.1	Customer JourneyMap	Prepare the customer journey maps to understand the user interactions & experiences with the application (entry to exit).	All Members	COMPLETED
4.2	Technology Training	Attend the technology trainings as perthe training Calendar.	All Members	COMPLETED

	Functional	Prepare the Functional	All	
	Requirements&	Requirement Document &	Members	
4.3	Data Flow	Data- Flow Diagrams.		COMPLETED
	Diagrams			
4.4	Technolo gy	Prepare Technology Architecture of the	All Members	COMPLETED
	Architect	solution.		
	ure			
4.5	Technology	Attend the technology trainings	All Members	COMPLETED

	Training	as per the training Calendar.		
5.1	Milestone & Activity List	Prepare Milestone & Activity List.	All Members	COMPLETED
5.2	Sprint Delivery Plan	Prepare Sprint Delivery Plan.	All Members	COMPLETED
6	Data Collection	Collect datasets from different open sources like kaggle.com, data.gov, UCImachine learning repository, etc.	All Members	IN PROGRESS
7.1	Image Preprocessing	Importing the Image Data Generator Library	All Members	IN PROGRESS
7.2	Image Preprocessing	Define the parameters/arguments for Image Data Generator class.	All Members	IN PROGRESS
7.3	Image Preprocessing	Applying Image Data Generator functionality to trainset and testset.	All Members	IN PROGRESS
8.1	Model Building	Importing the model building libraries.	All Members	IN PROGRESS
8.2	Model Building	Initializing the model.	All Members	IN PROGRESS
8.3	Model Building	Adding CNN Layers.	All Members	IN PROGRESS

8.4	Model Building	Adding Dense Layers	All Members	IN PROGRESS
8.5	Model Building	Configuring the learning process	All	IN PROGRESS
0.5	Woder Building		Members	
8.6	Model Building	Training the Model	All	IN PROGRESS
0.0	Woder building	Training the Woder	Members	

8.7	Model Building	Save the model	All Members	IN PROGRESS
8.8	Model Building	Predictions	All Members	IN PROGRESS
9.1	Video Analysis	OpenCV for video processing.	All Members	IN PROGRESS
9.2	Video Analysis	Creating an account in Twilioservice.	All Members	IN PROGRESS
9.3	Video Analysis	Sending alert message.	All Members	IN PROGRESS
10.1	Train CNN Modelon IBM	Register for IBM Cloud	All Members	IN PROGRESS
10.2	Train CNN Modelon IBM	Train Image Classification Model	All Members	IN PROGRESS