MILESTONE LIST

Project Name	Emerging Methods For Early Detection Of	Date21/10/2022	
	Forest Fires		
Project Domain	Artificial Intelligence 4		
Project Leader	Rajapandi M IBM		

Milestone Name	Name MilestoneDescription		Mandatory	Optional
Drainet Objectives	Number			
Project Objectives		1We will be able to learn to prepare dataset, image processing, working with ad 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-	To complete this project we should have known following project such as Keras, Tensorflow, Python ,Anaconda, OpenCV, Flask, Scikit-learn etc	Yes	
Prior Knowledge	003	One should have knowledge on the Supervised Learning ,CNN and Regression Classification and Clustering, ANN	Yes	
Data collection	M-	We can collect dataset from different open sources like kaggle.com, UCI machine learning etc	Yes	
Image Preprocessing	004 M-	Importing the ImageDataGenerator libraries,DefineParameters/Arguments for ImageDataGenerator class,Applying Image DataGenerator Functionality to trainset and testset	Yes	
Model Building	M-807	Importing the model building libraries,Initializingthe model,AddingCNN layers,Adding Dense layers,Configuring the learningProcess,Train the model,Save the model,Predictions.	Yes	
Video Analysis	M:	Opency for video processing, creating an account in twilio service and sending alert message	Yes	
Train CNN model	889	Register for IBM Cloud and train Image Classification Model	Yes	
Ideation Phase Project Design	M-	Prepare Literature Survey on the selected Project and Information Gathering, empathy map and ideation	Yes Yes	
Phase-I	009	Prepare Proposed solution , problem-solution fit and Solution Architecture Prepare Customer journey ,functional requirements,Data flow diagram and	Yes	
Project Design Phase-II	Øio	Technology Architecture	. 55	
Project Planning Phase	M-	Prepare Milestone list , Activity list and Sprint Delivery Plan	Yes	
Project DevelopmentPhase	011	Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4	Yes	
	M-	1		

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Milestone List

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ACTIVITY LIST

Project Name	Emerging Methods for Early Detection of	Date	21/10/202
	Forest Fires		
Project Number		No of Members	4
Project Leader	Rajapandi M	Project Owner/Client	IBM

Activity Number	Activity Name	Detailed Activity Description	Assigned To	Status / Comments
1.1	Access Resources	Accesstheresources(courses)in project dashboard.	All Members	COMPLETED
1.2	Rocket chat registration	Jointhementoringchannelviaplatform & rocket-chat	All Members	COMPLETED
1.3	Access workspace	mobile app. Access the guided project workspace.	All Members	COMPLETED
1.4	IBM Cloud registration	RegisteronIBMAcademicInitiative& ApplyFeaturecodeforIBM Cloud Credits.	All Members	COMPLETED
1.5	Project Repository Creation	CreateGitHubaccount&collaborate with Project Repository in project workspace.	All Members	COMPLETED
1.6	Environment Setup	Set-uptheLaptop/Computersbased on the pre-requisites for each technology track.	All Members	COMPLETED
2.1	Literature survey	Literaturesurveyontheselectedproject & Information Gathering.	rajapandi Amarnath	COMPLETED
2.2	Technology Training	Attendthetechnologytrainingsasper the training Calendar. PrepareEmpathyMapCanvasto	All Members	COMPLETED
2.3	Empathy Map	capturetheuserPains&Gains, Preparelistofproblem statements Attendthetechnologytrainingsasper	sukumar Bharathraj	COMPLETED
2.4	Technology Training	the training Calendar. Listtheideas(atleast4pereachteam	All Members	COMPLETED
2.5	Brainstorming	member) by	All Members	COMPLETED

		organizingthebrainstormingsession			
		and prioritize the			
		top3ideasbasedonthefeasibility& importance.			
		Attendthetechnologytrainingsasper			
2.6	Technology Training	the training	All Members	COMPLETED	
2.0	reciniology maining	Calendar.	All Members	COMPLETED	
		Preparetheproposedsolution			
	D 101.	document, which includes	.		
3.1	Proposed Solution Document	thenovelty, feasibility of idea, business	Rajapandi Amarnath	COMPLETED	
	Document	model, social impact, scalability of solution, etc.	Amamam		
		Attendthetechnologytrainingsasper			
		the training			
3.2	Technology Training	Calendar.	All Members	COMPLETED	
	Dualdana Calutian fit 0	Prepareproblem-solutionfitdocument	Sukumar		
2.2	Problem - Solution fit &	& Solution	Sukumai	COMPLETED	
3.3	Solution Architecture	Architecture.	Bharathraj	COMPLETED	
	Architecture	Attendthetechnologytrainingsasper	,		
3.4	Technology Training	the training Calendar.	011.04	COMPLETED	
3.4	, , , , , , , , , , , , , , , , , , , ,	Preparethecustomerjourneymapsto	All Members	COM LETED	
		understand the			
		userinteractions&experienceswiththe			
4.1	Customer Journey Map	application	All Members	COMPLETED	
		(entry to exit).			
		Attendthetechnologytrainingsasper			
	Tankanala sa Taninin sa	the training Calendar.	All Members	COMPLETED	
4.2	Technology Training	PreparetheFunctionalRequirement	All Members	COMPLETED	
	Functional Requirements	Document & Data-	Amarnath		
4.	&	Flow Diagrams.	Sukumar	IN PROGRESS	
	Data Flow Diagrams	PrepareTechnologyArchitectureofthe		THE GIVES	
3		solution.	Bharathraj	COMPLETED	
	Technology Architecture	Attendthetechnologytrainingsasper	Rajapandi		
4.	Technology Training	the training Calendar.	All Members	COMPLETED	
	J	Prepare Milestone &	/ tt Fielingers		
4	Milestone &	Activity List.	Rajapandi	COMPLETED	
	& Activity List	Prepare Sprint Delivery Plan.	Amarnath		
4.	·	The second secon	sukumar	IN PROGRESS	
_	Sprint Delivery Plan				
5			bharathraj		

5. Milestone List 1

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	Collectdatasetsfromdifferentopen		
6	Data Collectionsourceslikekaggle.com, data.gov,UCImachinelearning	Rajapandi Amarnath	COMPLETED
7.1	Image PreprocessingImportingtheImageDataGenerator	Amarnath	IN PROGRESS
7.2	Library Image PreprocessingDefinetheparameters/argumentsfor	Sukumar	IN PROGRESS
7.3	ImageDataGenerator class. ApplyingImageDataGenerator Image Preprocessingfunctionalitytotrainsetandtest	Bharathraj	IN PROGRESS
8.1	set.	Rajapandi	IN PROGRESS
8.2	Model BuildingImporting the model building libraries. Model BuildingInitializing the model.	Amarnath	IN PROGRESS
8.3	Model BuildingAdding CNN Layers.	Sukumar	IN PROGRESS
8.4	Model BuildingAdding Dense Layers	Bharathraj	IN PROGRESS
8.5	Model BuildingConfiguring the learning process	Rajapandi	IN PROGRESS
8.6	Model BuildingTraining the Model	Amarnath	IN PROGRESS
8.7	Model BuildingSave the model	sukumar	IN PROGRESS
8.8	Model BuildingPredictions	Bharathraj	IN PROGRESS
9.1	Video AnalysisOpenCV for video processing.	Rajapandi	IN PROGRESS
9.2	Video AnalysisCreating an account in Twilio service.	Rajapandi	IN PROGRESS
9.3	Video AnalysisSending alert message.	Amarnath All members	IN PROGRESS
10. 1	Train CNN Model on IBMRegister for IBM Cloud	Bharathraj	IN PROGRESS IN PROGRESS
10. 2	Train CNN Model on IBMTrain Image Classification Model	Rajapandi	