Project Planning PhaseMilestoneandActivityList

Date	03-11-2022
TeamID	PNT2022TMID30386
ProjectName	Project-Early detection of forest fire using deeplearning

MILESTONELIST:

Name	Milestone Number	Description	Mandatory	Optional
ProjectObjectives	M-001	Wewillbeabletolearntopreparedataset,imageprocessing, workingwithCNNlayers,readimagesusingOpenCVandCNNforcomputer visionAI	Yes	-
ProjectFlow	M-002	Aprojectmanagementprocessflowchartisagraphicalaid,designed to visualize the sequence of steps to be followedthroughouttheprojectmanagementprocess	Yes	
Pre-Requisites	M-003	Tocompletethisprojectweshouldhaveknownfollowingproject suchasKeras,Tensorflow,Python,Anaconda,OpenCV,Flask,Scikit-learnetc…	Yes	
PriorKnowledge	M-004	One should have knowledge on the Supervised Learning ,CNN andRegressionClassificationandClustering,ANN	Yes	
Datacollection	M-005	Wecancollectdatasetfromdifferentopensourceslikekaggle.com,UCImachinelearningetc	Yes	
ImagePreprocessing	M-006	Importing the ImageDataGenerator libraries, DefineParameters/Arguments for ImageDataGenerator class, ApplyingImageDataGeneratorFunctionalitytotrainsetandtestset	Yes	
ModelBuilding	M-007	Importingthemodelbuildinglibraries,Initializingthemodel,AddingCNNlayers,AddingDenselayers,ConfiguringthelearningProcess ,Trainthemodel,Savethemodel,Predictions.	Yes	
VideoAnalysis	M-008	Opencvforvideoprocessing,creatinganaccountintwilioserviceand Sendingalert messages.	Yes	
Train CNNmodel	M-009	RegisterforIBMCloudandtrainImageClassificationModel	Yes	
IdeationPhase	M-010	PrepareLiteratureSurveyontheselectedProjectandInformationGathering,empathy mapandideation	Yes	
Project DesignPhase-I	M-011	PrepareProposedsolution,problem-solutionfitandSolutionArchitecture	Yes	
Project DesignPhase-II	M-012	PrepareCustomerjourney,functionalrequirements,Dataflowdiagramand TechnologyArchitecture	Yes	
Project PlanningPhase	M-013	PrepareMilestonelist,ActivitylistandSprintDeliveryPlan	Yes	
ProjectDevelopmentPhase	M-014	ProjectDevelopmentdeliveryofSprint1,Sprint2,Sprint3,Sprint4	Yes	

ACTIVITYLIST:

Activity Number	ActivityName	DetailedActivityDescription	TaskAssigned	Status
1.1	AccessResources	Accesstheresources(courses)inprojectdashboard.	AllMembers	COMPLETED
1.2	Rocketchatregistration	Jointhementoringchannelviaplatform&rocket-chat mobileapp.	AllMembers	COMPLETED
1.3	Accessworkspace	Accesstheguidedproject workspace.	AllMembers	COMPLETED
1.4	IBMCloudregistration	RegisteronIBMAcademicInitiative&ApplyFeaturecodeforIBM CloudCredits.	AllMembers	COMPLETED
1.5	ProjectRepository Creation	Create GitHub account &collaborate with ProjectRepositoryinprojectworkspace.	AllMembers	COMPLETED
1.6	EnvironmentSetup	Set-up the Laptop / Computersbased on the pre-requisites foreachtechnologytrack.	AllMembers	COMPLETED
2.1	Literaturesurvey	Literaturesurveyontheselectedproject&InformationGathering.	AllMembers	COMPLETED
2.2	TechnologyTraining	AttendthetechnologytrainingsasperthetrainingCalendar.	AllMembers	COMPLETED
2.3	EmpathyMap	Prepare Empathy Map Canvas tocapture the user Pains & Gains,Preparelistofproblemstatements	AllMembers	COMPLETED
2.4	TechnologyTraining	AttendthetechnologytrainingsasperthetrainingCalendar.	AllMembers	COMPLETED
2.5	Brainstorming	List the ideas (at least 4 per eachteammember)byorganizingthe brainstormsessionandprioritizetheideas	AllMembers	COMPLETED

2.6	TechnologyTraining	Attendthetechnologytrainingsasperthe trainingCalendar.	AllMembers	COMPLETED
3.1	Proposed SolutionDocument	Prepare the proposed solutiondocument,whichincludestheno velty,feasibility of idea, business model,social impact,scalabilityofsolution,etc.	AllMembers	COMPLETED
3.2	TechnologyTraining	Attendthetechnologytrainingsasperthe trainingCalendar.	AllMembers	COMPLETED
3.3	Problem-Solutionfit&SolutionAr chitecture	Prepare problem - solution fitdocument&SolutionArchitecture.	AllMembers	COMPLETED
3.4	TechnologyTraining	Attendthetechnologytrainingsasperthe trainingCalendar.	AllMembers	COMPLETED
4.1	CustomerJourneyMap	Prepare the customer journey maps tounderstand the user interactions &experienceswiththeapplication(entryt oexit).	AllMembers	COMPLETED
4.2	TechnologyTraining	Attendthetechnologytrainingsasperthe trainingCalendar.	AllMembers	COMPLETED
4.3	FunctionalRequirements& DataFlowDiagrams	Prepare the Functional RequirementDocument&DataFlowDiag rams.	AllMembers	COMPLETED
4.4	TechnologyArchitecture	Prepare Technology Architectureofthesolution.	AllMembers	COMPLETED
4.5	TechnologyTraining	Attendthetechnologytrainingsaspert hetrainingCalendar.	AllMembers	COMPLETED
5.1	Milestone&ActivityList	PrepareMilestone& ActivityList.	AllMembers	COMPLETED
5.2	SprintDeliveryPlan	PrepareSprintDeliveryPlan.	AllMembers	INPROGRESS

6	DataCollection	Collect datasets from different opensources like kaggle.com, data.gov,UCImachinelearningreposit ory,etc.	AllMembers	COMPLETED
7.1	ImagePreprocessing	Importing the ImageDataGeneratorLibrary	AllMembers	INPROGRESS
7.2	ImagePreprocessing	Define the parameters/arguments forImageDataGeneratorclass.	AllMembers	INPROGRESS
7.3	ImagePreprocessing	Applying ImageDataGeneratorfunctionalitytot rainsetandtestset.	AllMembers	INPROGRESS
8.1	ModelBuilding	Importing the model buildinglibraries.	AllMembers	INPROGRESS

8.2	ModelBuilding	Initializingthemodel.	AllMembers	INPROGRESS
8.3	ModelBuilding	AddingCNNLayers.	AllMembers	INPROGRESS
8.4	ModelBuilding	AddingDenseLayers	AllMembers	INPROGRESS
8.5	ModelBuilding	Configuringthelearningprocess	AllMembers	INPROGRESS
8.6	ModelBuilding	TrainingtheModel	AllMembers	INPROGRESS
8.7	ModelBuilding	Savethemodel	AllMembers	INPROGRESS
8.8	ModelBuilding	Predictions	AllMembers	INPROGRESS
9.1	VideoAnalysis	OpenCVforvideoprocessing.	AllMembers	INPROGRESS
9.2	VideoAnalysis	CreatinganaccountinTwilioservice.	AllMembers	INPROGRESS
9.3	VideoAnalysis	Sendingalertmessage.	AllMembers	INPROGRESS
10.1	TrainCNNModelonIBM	RegisterforIBMCloud	AllMembers	INPROGRESS
10.2	TrainCNNModelonIBM	TrainImageClassificationModel	AllMembers	INPROGRESS