

EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRE

MILESTONE AND ACTIVITY LIST

Team ID	PNT2022TMID28630
Project Name	Emerging methods for early detection of forest fires
Maximum Marks	4 marks

S.NO	MILESTONE	DESCRIPTION	DURATION	WORKING STATUS
1	Project objectives	Be able to learn to prepare dataset, image processing, working with CNN layers, read images using Opencv and CNN for computer vision AI	1 week	COMPLETED
2	Project flow	It is a visual aid to understand the methodology you're using to manage the project. The diagram shows the interdependent and parallel processes over the course of the project's life	1 week	COMPLETED
3	pre-requisites	To complete this project we should have known the following projects such as Keras, Tensor flow, Python , Anaconda, Open CV, Flask,Scikit-learn etc...	1 week	COMPLETED
4	Prior knowledge	One should have knowledge on the Supervised Learning ,CNN and Regression	1 week	COMPLETED

		Classification and Clustering, ANN		
5	Data Collection	We can collect dataset from different open sources like kaggle.com, UCI machine learning etc	2 weeks	COMPLETED
6	Image Preprocessing	Importing the Image Data Generator libraries, Define Parameters/Arguments for Image Data Generator class, Applying Image Data Generator Functionality to train set and test set	1 week	COMPLETED
7	Model Building	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	2 weeks	COMPLETED
8	Video Analysis	Open cv for video processing, creating an account in twilio service and sending alert message	1 weeks	COMPLETED
9	Train CNN Model	Register for IBM Cloud and train Image Classification Model	2 weeks	COMPLETED
10	Ideation Phase	Prepare Literature Survey on the selected Project and InformationGathering ,empathy map and ideation	1 week	COMPLETED
11	Project Design Phase-I	Prepare Proposed solution , problem-solution fit and SolutionArchitecture	1 week	COMPLETED

12	Project Design Phase-II	Prepare Customer journey , functional requirements, Data flow diagram and Technology Architecture	1 week	COMPLETED
13	Project Planning Phase	Prepare Milestone list , Activity list and Sprint Delivery plan	1 week	COMPLETED
14	Project Development Phase	Prepare Milestone list , Activity list and Sprint Delivery	4 weeks	COMPLETED

ACTIVITY LIST

Activity Number	Activity Name	Detailed Activity Description	Assigned To	Status
1	Access Resources	Access the resources(courses) in the project dashboard.	All Members	COMPLETED
2	Rocket Chat Registration	Join the mentoring channel via platform & rocket-chat mobile app.	All Members	COMPLETED
3	Access Workspace	Access the guided project workspace	All Members	COMPLETED
4	IBM Cloud Registration	Register on IBM Academic Initiative & Apply Feature code for IBM Cloud Credits.	All Members	COMPLETED
5	Project Repository Creation	Create GitHub account & collaborate with Project Repository in project workspace	All Members	COMPLETED
6	Environment Setup	Set-up the Laptop / Computers based on the prerequisites for	All Members	COMPLETED

		each technology track.		
7	Literature Survey	Literature survey on the selected project & Information Gathering	All Members	COMPLETED
8	Technology Training	Attend the technology training as per the training Calendar.	All Members	COMPLETED