

MILESTONE LIST

TEAM ID	PNT2022TMID49261
PROJECT NAME	Real-Time Communication System Powered by AI for Specially Abled
TEAM MEMBERS	1.AHELESWARAN E 2.PRIYADHARSAN B 3.RAAGHUL R 4.RAGULPANDIYAN K

MILESTONE NAME	MILESTONE NUMBER	DESCRIPTION	MANDATORY
PROJECT OBJECTIVES	M-01	We will be able to learn 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 visualize the sequence of steps to be followed throughout the project management process	YES
PRE-REQUISITES	M-03	To complete this project, we should have known following project such as Keras, TensorFlow, Python, Anaconda, OpenCV, Flask, Scikit-learn 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 PREPROCESSING	M-06	Importing the Image Data Generator libraries, Define Parameters/Arguments for Image Data Generator class, Applying Image Data Generator Functionality to trainset and test set	YES

MODEL BUILDING	M-07	Importing the model building libraries, Initializing the model, Adding CNN layers, Adding Dense layers, Configuring the learning Process, Train the model, Save the model, Predictions.	YES
VIDEO ANALYSIS	M-08	Open CV for video processing, creating an account in twilio service and sending alert message	YES
TRAIN CNN MODEL	M-09	Register for IBM Cloud and train Image Classification Model	YES
IDEATION PHASE	M-10	Prepare Literature Survey on the selected Project and Information Gathering, empathy map and ideation	YES
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 TO	STATUS
1.	PROJECT OBJECTIVES		All Members	Completed
2.	PROJECT FLOW		All Members	Completed
3.	PRE-REQUISITES		All Members	Completed
4.	DATA COLLECTION	4.1 Download the Dataset	PRIYADHARSAN B	Completed
		5.1 Import the Image Data	RAAGHUL R	

5.	IMAGE PROCESSING	Generator Library 5.2 Applying Image Data Generator	RAGULPANDIYAN K	IN PROGRESS
6.	MODEL BUILDING	6.1 Importing the model building libraries. 6.2 Initializing the model. 6.3 Adding the CNN layers. 6.4 Adding the Pooling layer. 6.5 Adding the Flatten Layer 6.6 Adding the Dense layers. 6.7 Compile the Model. 6.8 Fit and Save the model.	All Members	IN PROGRESS
7.	TEST THE MODEL	7.1 Import the packages and load the saved model 7.2 Load the Test image,Pre-process it and predict. 7.3 Open CV	RAAGHUL R RAGULPANDIYAN K	IN PROGRESS

8.	TRAIN CNN MODEL ON IBM	8.1 Train image classification model. 8.2 Register for IBM Cloud	RAGULPANDIYAN K RAAGHUL R	IN PROGRESS
9.	IDEATION PHASE	9.1 Literature Review. 9.2 Empathy map. 9.3 Ideation	All Members	Completed
10.	PROJECT DESIGN PHASE I	10.1 Proposed Solution. 10.2 Problem Solution Fit. 10.3 Solution Architecture.	All Members	Review
11.	PROJECT DESIGN PHASE II	11.1 Customer Journey. 11.2 Functional Requirements. 11.3 Data flow diagram. 11.4 Technology Architecture	All Members	IN PROGRESS
12.	PROJECT PLANNING PHASE	12.1 Prepare Milestone and Activity List. 12.2 Sprint Delivery Plan.	PRIYADHARSAN B RAAGHUL R PRIYADHARSAN B	IN PROGRESS

13.	APPLICATION BUILDING	13.1 Build A flask application. 13.2 Build A flask application. 13.3 Building Flask application-part 3. 13.4 Building the HTML page. 13.5 Output	All Members	IN PROGRESS
14.	PROJECT DEVELOPMENT PHASE	14.1 Project Development delivery of Sprint 1. 14.2 Project Development delivery of Sprint 2. 14.3 Project Development delivery of Sprint 3. 14.4 Project Development delivery of Sprint 4.	All Members	IN PROGRESS