MILESTONE LIST

Project Name	Fertilizers Recommendation System for Disease Prediction	Date	26/10/2022
Project Domain	Artificial Intelligence	No of Members	4
Project Leader	Ashok N	Project Owner/Client	IBM

Milestone Name	Milestone Number	Description	Mandatory	Optional
Project Objectives	M-001	We will be able to learn to prepare dataset, image processing, working with CNN layers, read images via Open CV and CNN for computer vision AI.	Yes	-
Project Flow	M-002	A project management process flowchart is a graphical aid, designed to envision the categorization of steps to be followed all over the project management process.	Yes	
Pre-Requisites	M-003	To complete this project we should have to know the following project such as Keras, Tensor flow, Python, Anaconda, Open CV, Flask, Scikit-learn etc…	Yes	
Prior Knowledge	M-004	One ought to have information on the Managed Learning, CNN layers and Relapse Arrangement and Bunching, ANN.	Yes	
Data collection	M-005	We can gather dataset from different open sources like kaggle.com, UCI AI and so forth.	Yes	
Image Preprocessing	M-006	Importing the Image Data Generator libraries, Define Parameters/Arguments for Image Data Generator class, Applying Image Data Generator Functionalityto train set and test set.	Yes	
Model Building	M-007	Bringing in the model structure libraries, Instating the model, Adding CNN layers, Adding Thick layers, Designing the growing experience, Train the model, Save the model, Forecasts.	Yes	
Video Analysis	M-008	Open cv for video processing, creating an account in twilio service andsending alert message	Yes	
Train CNN model	M-009	Register for IBM Cloud and train Picture Order Model	Yes	
Ideation Phase	M-010	Get ready Writing Study on the chose Undertaking and Data Social occasion, compassion guide 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 andTechnology 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

Project Name	Fertilizers Recommendation System for Disease Prediction		Date	26/10/2022
Team ID	PNT2022TMID33300		No of Members	4
Project Leader	Ashok N		Project Owner/Client	IBM

Activity Number	Activity Name	Detailed Activity Description	Assigned To	Status / Comments
1.1	Access Resources	Access the resources (courses) in project dashboard.	All Members	COMPLETED
1.2	Rocket chat registration	Join the coaching channel through stage and rocket-talk versatile application.	All Members	COMPLETED
1.3	Access workspace	Access the guided project workspace.	All Members	COMPLETED
1.4	IBM Cloud registration	Register on IBM Scholastic Drive and Apply Element code for IBM Cloud Credits.	All Members	COMPLETED
1.5	Project Repository Creation	Make GitHub account & team up with Undertaking Storehouse in project Work area.	All Members	COMPLETED
1.6	Environment Setup	Set-up the PC/PCs in light of the pre-Essentials for every innovation track.	All Members	COMPLETED
2.1	Literature survey	Literature survey on the Selected project & Information Gathering.	Ashok N Balaji VK	COMPLETED
2.2	Technology Training	Go to the innovation phases of preparation according to the preparation Schedule.	All Members	COMPLETED

2.3	Empathy Map	Prepare Empathy Map Canvas to capture the user Pains & Gains, Prepare list of problem statements	Arunkumar D Ariharan D	COMPLETED
2.4	Technology	Attend the technology trainings as per the training calendar.	All Members	COMPLETED

2.5	Brainstorming	List the thoughts (something like 4 for every each colleague) by coordinating the meeting to generate new ideas and focus on the main 3 thoughts in light of the plausibility and significance.	All Members	COMPLETED
2.6	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
3.1	Proposed Solution Document	Set up the proposed arrangement record, which incorporates the oddity, possibility of thought, plan of action, social effect, versatility of arrangement, and so on.	Ashok N Balaji VK	COMPLETED
3.2	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
3.3	Problem - Solution fit & Solution Architecture	Prepare problem - solution fit document & Solution Architecture.	Ashok N	COMPLETED
3.4	Technology Training	Attend the technology trainings as per the training Calendar.	All Members	COMPLETED
4.1	Customer Journey Map	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 per the training Calendar.	All Members	COMPLETED

4.3	Functional Requirements & Data Flow Diagrams	Prepare the Functional Requirement Document & Data-Flow Diagrams.	Ashok N Balaji VK	COMPLETED
4.4	Technology Architecture	Prepare Technology Architecture of the solution.	Arunkumar D Ariharan D	COMPLETED
4.5	Technology	Attend the technology trainings as per the training calendar.	All Members	COMPLETED

5.1	Milestone & Activity List	Prepare Milestone & Activity List.	Arunkumar D Ariharan D	COMPLETED
5.2	Sprint Delivery Plan	Prepare Sprint Delivery Plan.	Ashok N Balaji VK	COMPLETED
6	Data Collection	Gather datasets from various open sources like kaggle.com, data.gov, UCI AI archive, and so on.	Arunkumar D Ariharan D	IN PROGRESS
7.1	Image Preprocessing	Importing the Image Data Generator Library	Arunkumar D Ariharan D	IN PROGRESS
7.2	Image Preprocessing	Characterize the boundaries/contentions for Picture Information Generator class.	Ashok N Balaji VK	IN PROGRESS
7.3	Image Preprocessing	Applying Image Information Generator usefulness to trainset and test set.	Arunkumar D Ariharan D	IN PROGRESS
8.1	Model Building	Importing the model building libraries.	Ashok N Balaji VK	IN PROGRESS
8.2	Model Building	Initializing the model.	Arunkumar D Ariharan D	IN PROGRESS
8.3	Model Building	Adding CNN Layers.	Arunkumar D Ariharan D	IN PROGRESS
8.4	Model Building	Adding Dense Layers	Ashok N Balaji VK	IN PROGRESS
8.5	Model Building	Configuring the learning process	Arunkumar D Ariharan D	IN PROGRESS
8.6	Model Building	Training the Model	Ashok N Balaji VK	IN PROGRESS

8.7	Model Building	Save the model	Arunkumar D Ariharan D	IN PROGRESS
8.8	Model Building	Predictions	Ashok N Balaji VK	IN PROGRESS
9.1	Video Analysis	OpenCV for video processing.	All Members	IN PROGRESS
9.2	Video Analysis	Creating an account in Twilio service.	All Members	IN PROGRESS
9.3	Video Analysis	Sending alert message.	All Members	IN PROGRESS
10.1	Train CNN Model on IBM	Register for IBM Cloud	All Members	IN PROGRESS
10.2	Train CNN Model on IBM	Train Image Classification Model	All Members	IN PROGRESS