Natural Disasters Intensity Analysis and Classification using Artificial Intelligence

Date	14 November 2022
Team ID	**PNT2022TMID47258**
Project Name	**Natural disaster intensity analysis and classification using AI Solution**

MILESTONE AND ACTIVITY LIST

Mile-Stone:

Pre-Requisites	M-01	Prerequisites are the needs required for the implementation of the Various phases of the project. They help to render the relevant Technical information regarding the project
Project Structure	M-02	The project structure that must be adhered to in order to construct Conversation Engine is as follows.
Data collection	M-03	We are collecting data for building our project. We will be Creating two folders one for training and the other for testing. Images present in the training folder will be used for building the model and the testing images willbe used for validating our model
Understanding the data	M-04	Without data, machine learning (ML) is impossible since machines cannot learn. Dataset Digits from 0 to 9 are divided into ten classes in the MNSIT dataset. Every digit is considered as a class.
Model Building	M-05	Importing the model building libraries, Initializing the model, Adding Convolution layers, Adding the Pooling layers, Adding the Flatten layers,Adding Dense layers, Compiling the model, Fit and Save the model.

Application Building	M-06	Building of web application using HTML pages, sever-slide script
Train the model on IBM	M-07	This milestone teaches how to build Deep Learning Model Using the IBM cloud
Ideation Phase	M-08	Preparation of Literature Survey on the selected Project and Information Gathering, empathy map and ideation
Project Design Phase-I	M-09	Prepare Proposed solution , problem-solution fit and Solution Architecture
Project Design Phase-II	M-10	Prepared Customer journey ,functional requirements, Data flow diagram and Technology Architecture
Project Planning Phase	M-11	Milestone list , Activity list and Sprint Delivery Plan
Project Development Phase	M-12	Project Development delivery of Sprint 1, Sprint 2, Sprint 3, Sprint 4

ACTIVITY LIST:

Activity Number	Activity	Sub Activity	Assigned To	Status
1	Pre-Requisites		Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
2	Project Structure		Balaji M SanjayVikram M BalaSubramaniam Govindharaj	Completed

			Nagarathinam M	
3	Data Collection	Download The Dataset	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
4	Understanding the data	☐ Importing The Required Libraries ☐ Loading the dataset ☐ Reshaping the data ☐ Applying one hot encode	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
5	Model Building	☐ Add CNN layer ☐ Compiling the model ☐ Train the model ☐ Observing the Metrics Test the model ☐ Observing The Metrics ☐ Test the model ☐ Save the model ☐ Test with saved model	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
6	Application Building	☐ Create on HTML file ☐ Build python code (part 1)	Balaji M SanjayVikram M BalaSubramaniam Govindharaj	Completed

		☐ Build python code (part 2) ☐ Run the application	Nagarathinam M	
7	Train the model on IBM	☐ Register for IBM Cloud ☐ Train the model on IBM	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
8	Ideation Phase	☐ Literature survey on the selected project information gathering. ☐ Prepare empathy map ☐ Ideation	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
9	Project Design Phase-I	☐ Proposed Solution ☐ Problem SolutionFit ☐ Solution Architecture	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
10	Project Design Phase -II	☐ Customer Journey ☐ Function Requirement ☐Data flow diagrams ☐Technology architecture	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
11	Project Planning Phase	☐ Prepare Milestone And Activity List ☐ Sprint delivery plan	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed

| 12 | Project Development Phase | □ Project development delivery of sprint - 1
□ Project development □ delivery of sprint - 2
□ Project development delivery of sprint - 3
□ Project development delivery of sprint 4 | Balaji M
SanjayVikram M
BalaSubramaniam Govindharaj

Nagarathinam M | Ongoing |