

**IBM-EPBL/IBM-Project-20074-1659711991**  
**Natural Disasters Intensity Analysis and Classification using Artificial Intelligence**

<b>Date</b>	<b>14 November 2022</b>
<b>Team ID</b>	<b>PNT2022TMID47258</b>
<b>Project Name</b>	<b>Natural disaster intensity analysis and classification using AI Solution</b>

**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	Completed

			BalaSubramaniam Govindharaj Nagarathinam M	
3	Data Collection	Download The Dataset	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
4	Understanding the data	<input type="checkbox"/> Importing The Required Libraries <input type="checkbox"/> Loading the dataset <input type="checkbox"/> Reshaping the data <input type="checkbox"/> Applying one hot encode	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
5	Model Building	<input type="checkbox"/> Add CNN layer <input type="checkbox"/> Compiling the model <input type="checkbox"/> Train the model <input type="checkbox"/> Observing the Metrics Test the model <input type="checkbox"/> Observing The Metrics <input type="checkbox"/> Test the model <input type="checkbox"/> Save the model <input type="checkbox"/> Test with saved model	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
6	Application Building	<input type="checkbox"/> Create on HTML file	Balaji M SanjayVikram M	Completed

		<input type="checkbox"/> Build python code (part 1) <input type="checkbox"/> Build python code (part 2) <input type="checkbox"/> Run the application	BalaSubramaniam Govindharaj Nagarathinam M	
7	Train the model on IBM	<input type="checkbox"/> Register for IBM Cloud <input type="checkbox"/> Train the model on IBM	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
8	Ideation Phase	<input type="checkbox"/> Literature survey on the selected project information gathering. <input type="checkbox"/> Prepare empathy map <input type="checkbox"/> Ideation	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
9	Project Design Phase-I	<input type="checkbox"/> Proposed Solution <input type="checkbox"/> Problem SolutionFit <input type="checkbox"/> Solution Architecture	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
10	Project Design Phase -II	<input type="checkbox"/> Customer Journey <input type="checkbox"/> Function Requirement <input type="checkbox"/> Data flow diagrams <input type="checkbox"/> Technology architecture	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed
11	Project Planning Phase	<input type="checkbox"/> Prepare Milestone And Activity List <input type="checkbox"/> Sprint delivery plan	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Completed

12	Project Development Phase	<input type="checkbox"/> Project development delivery of sprint - 1 <input type="checkbox"/> Project development delivery of sprint - 2 <input type="checkbox"/> Project development delivery of sprint - 3 <input type="checkbox"/> Project development delivery of sprint 4	Balaji M SanjayVikram M BalaSubramaniam Govindharaj Nagarathinam M	Ongoing
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