Project Design Phase-II Technology Stack (Architecture & Stack)

Date	14 October 2022	
Team ID	PNT2022TMID17906	
Project Name	Natural Disaster Intensity Analysis and	
	Classification using Artificial Intelligence	
Maximum Marks	4 Marks	

Technical Architecture:

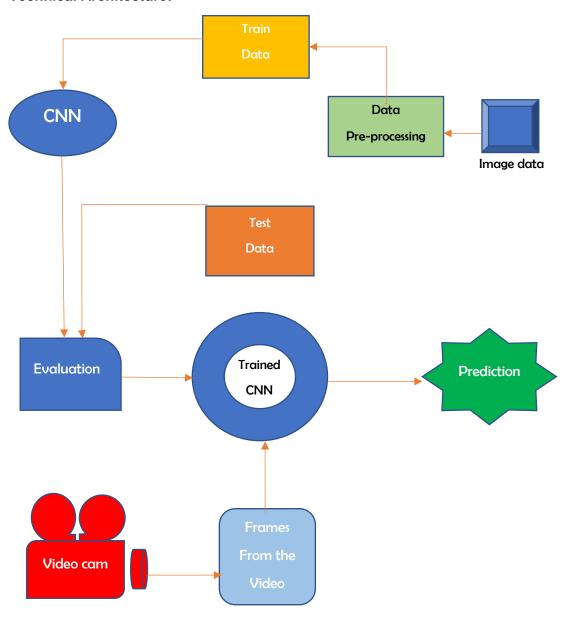


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask,Keras	Python
2.	Security Implementations	The input data is sent using the HTTP protocol for secure transfer of data	HTTP
3.	Scalable Architecture	Deployed on IBM cloud for scalability	IBM Cloud
4.	Availability	Application is highly available as it is deployed on the IBM cloud	IBM Cloud
5.	Performance	The model is pre- trained to provide quick and efficient results in less amount of time.	Python
		 Web pages are static, hence loaded more quickly. 	HTML,CSS,JS