Project Design Phase-
IITechnologyStack(Architecture&Stack)

Date	17October2022
TeamID	PNT2022TMID06689
ProjectName	Project - Natural Disaster IntensityAnalysisandClassification Using ArtificialIntelligence.
MaximumMarks	4Marks

TechnicalArchitecture:

TheDeliverableshallincludethe architectural diagram as belowandtheinformationasperthetable1&table2

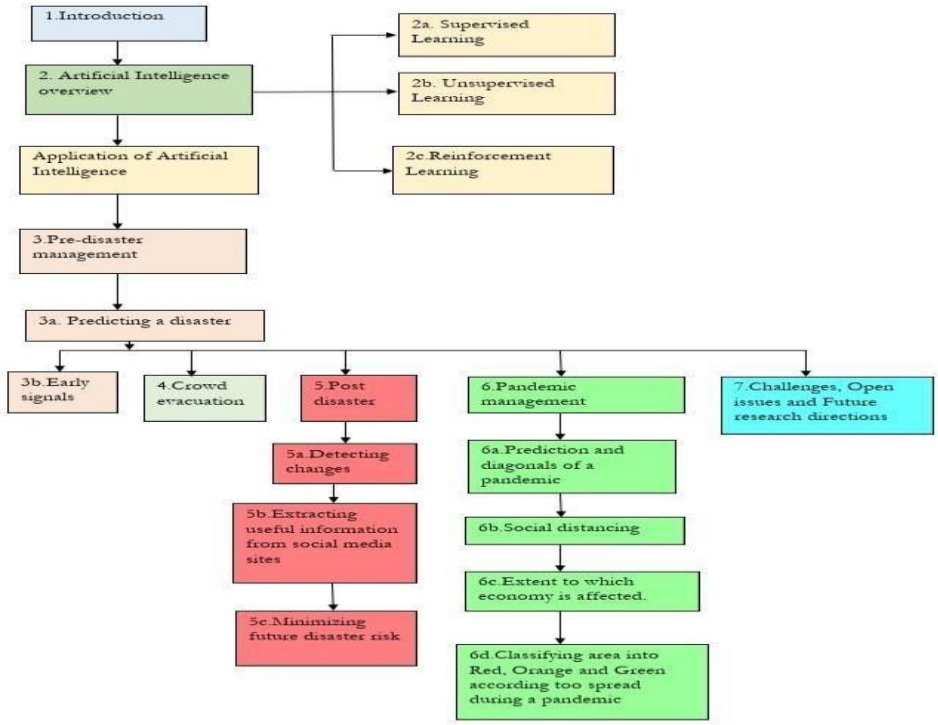

Table-1:Components&Technologies:

S.No	Component	Description	Technology
1.	UserInterface	How user interacts with application e.g. MobileApp,etc.	NLP ,CNN ,Deep Learning,etc.
2.	ApplicationLogic-1	Logicforaprocess intheapplication	Python-flask
3.	ApplicationLogic-2	Logicforaprocess intheapplication	IBM Watson Assistant ,IBMCloud
4.	ApplicationLogic-3	Logicforaprocess intheapplication	IBMWatsonAssistant
5.	Database	DataType,Configurationsetc.	Machine Learning, DeepLearning
6.	CloudDatabase	DatabaseServiceonCloud	IBMCloudantDB

7.	FileStorage	Filestoragerequirements	IBMWatsonStudio,IBM Cloud
8.	ExternalAPI-1	PurposeofExternalAPIusedintheapplication	IBMWeatherAPIetc.
9.	ExternalAPI-2	PurposeofExternalAPIusedintheapplication	IBMCloudetc.
10.	Convolutionalneuralnetwork	PurposeofConvolutionalneuralnetwork	ImageRecognition,etc.

Table-2:ApplicationCharacteristics:

S.No	Characteristics	Description	Technology
1.	Open-SourceFrameworks	With the goal to facilitate evaluation and mitigationof the risks from natural hazards, the NaturalHazards Engineering Research Infrastructure'sComputationalModeling.	Technologyofneural network
2.	ScalableArchitecture	Disasterdamagesaremeasuredinvolvesexaminingthenumberoffatalities,ofinjuries,of peopleaffected.	TechnologyusedisAI
3.	Availability	It can be available at the any time and we canaccessduring disasters.	TechnologyusedisCNN

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