Project Design Phase-II

Technology Stack (Architecture & Stack)

Technical Architecture:

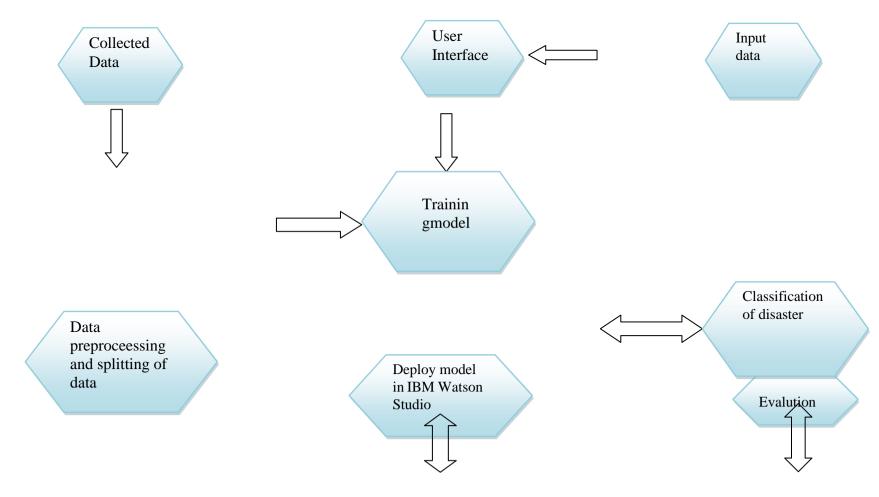


Table-1: Components & Technologies:

S. No	Component	Descripti on	Technolo gy
1	User Interface	User interacts with application for the	HTML, CSS, JavaScript,
		prediction of Any Natural disaster	Django, Python.
		which will happen in future minutes.	
3	Disaster Prediction	This function is used to predict	Decision trees,
		outcomes from the new trained data to perform new tasks and solvenew problems.	Regression, Neural networks.
4	Evaluation system	It monitors that how Algorithm	Chi-Square, Confusion Matrix,
		performs on data aswell as during	etc.
		training.	
5	Input data	To interact with our model and give it	Application programming
		problems to solve. Usually this takes the form of an API, a userinterface, or a command-line interface.	interface, etc.
6	Data collection unit	Data is only useful if it's accessible, so	IBM Cloud, SQL Server.
		it needs tobe stored ideally in a	
		consistent structure and conveniently in one place.	

Table-2: Application Characteristics:

S. No	Characteristics	Description	Technology
1.	Open-Source Frameworks	An open source framework is a template for software development that is designed by a social network of software developers. These frameworks are free for public use and provide thefoundation for building a software application.	Keras, Tensor flow.
2.	Authentication	This keeps our models secure and makes sure only those who have permission can use them.	Encryption and Decryption (OTP).
3.	Application interface	User uses mobile application and web application to interact with model	Web Development (HTML,CSS)
4.	Availability (both Online and Offlinework)	Its include both online and offline work. As good internet connection is need for online work to explore the software perfectly. Offline work includes the saved data to explore for later time.	Caching, backend server.
5.	Regular Updates	The truly excellent software product needs a continuous process of improvements and updates. Maintain your server and make sure that your content is always up-to-date. Regularly update an app and enrich it with new features.	Waterfall ApproachIncremental ApproachSpiral Approach
6.	Personalization	Software has features like flexible fonts, backgrounds, settings, colour themes, etc. which make a software interface looks good and functional.	• CSS