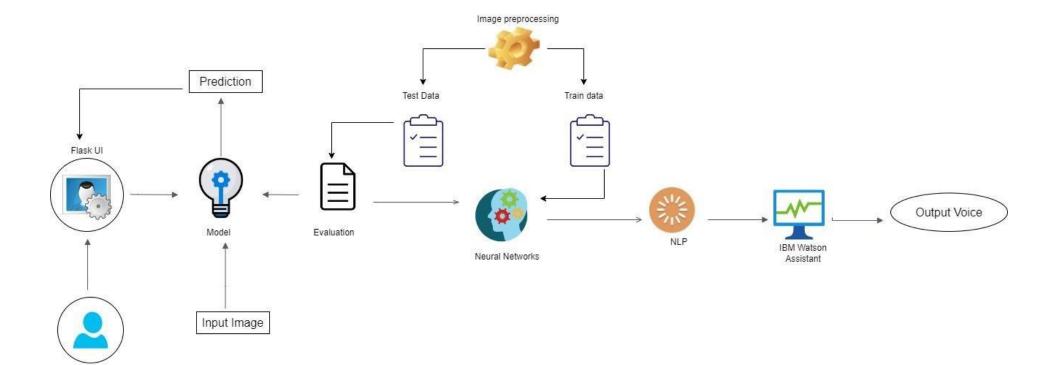
## Project Design Phase-II Technology Stack (Architecture & Stack)

Date	08 November 2022
Team ID	PNT2022TMID06310
Project Name	Real- Time Communication System Powered by AI For Specially Abled
Maximum Marks	4 Marks

## **Technical Architecture:**

The Deliverable shall include the architectural diagram as below and the information as per the table 1 & table 2

**Example: Real Time Communication System Powered by AI for Specially Abled for online mode** 



User

**Table-1: Components & Technologies:** 

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web	HTML, CSS, JavaScript / Angular Js /
		UI, Mobile App, Chat bot etc.	React Js etc.
2.	Application Logic-1	It deals with variety of frameworks, libraries and	Python
		supports required to develop the project	
3.	Application Logic-2	Helps in converting human voice into written	IBM Watson STT service
		words, In simple it is used to convert speech to text.	
4.	Application Logic-3	Provides fast, consistent and accurate answers	IBM Watson Assistant
		during the execution phase of the project	
5.	Database	It can be numerical, categorical or time-series data	MySQL etc.
6.	Cloud Database	Enables the user to use host database without buying	IBM DB2, IBM Cloud ant etc.
		the additional hardware	
7.	File Storage	File storage should be highly flexible, scalable and	IBM Block Storage or Other Storage
		effective	Service or Local File system
8.	External API-1	Used to access the information in the cloud	IBM Weather API, etc.
9.	External API-2	Used to access the information for data driven	Aadhar API, etc.
		decision making	
10.	Machine Learning Model	Machine learning considered an application that used to	Real time communication using AI for
	6 121	increase computer ability. It can be defined as an algorithm	
		that focuses on computer program development.	
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11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local	Local, Cloud Foundry etc.
		Server Configuration:	
		Install the windows version and execute the	
		installer. Select APACHE to install web server	

## **Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The frameworks used are	TensorFlow,PyTorch,Scikit-
			learn,XGBoost, Apache MXNet,AI
2.	Security Implementations	the security / access controls implemented, use of firewalls etc.	Identify, Prevent and Respond using AI
3.	Scalable Architecture	the scalability of architecture (3 – tier, Micro- services)	Data , models, operate at size, speed and complexity
4.	Availability	the availability of application (e.g. use of load balancers, distributed servers etc.)	Image and facial recognition, lip reading, text summarization, real time captioning
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Full and effective participation, equality of opportunity, accessibility