

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

Date	20 October 2022
Team ID	PNT2022TMID49307
Project Name	Real time communication system powered by AI for specially abled.
Maximum Marks	4 Marks

Technical Architecture:

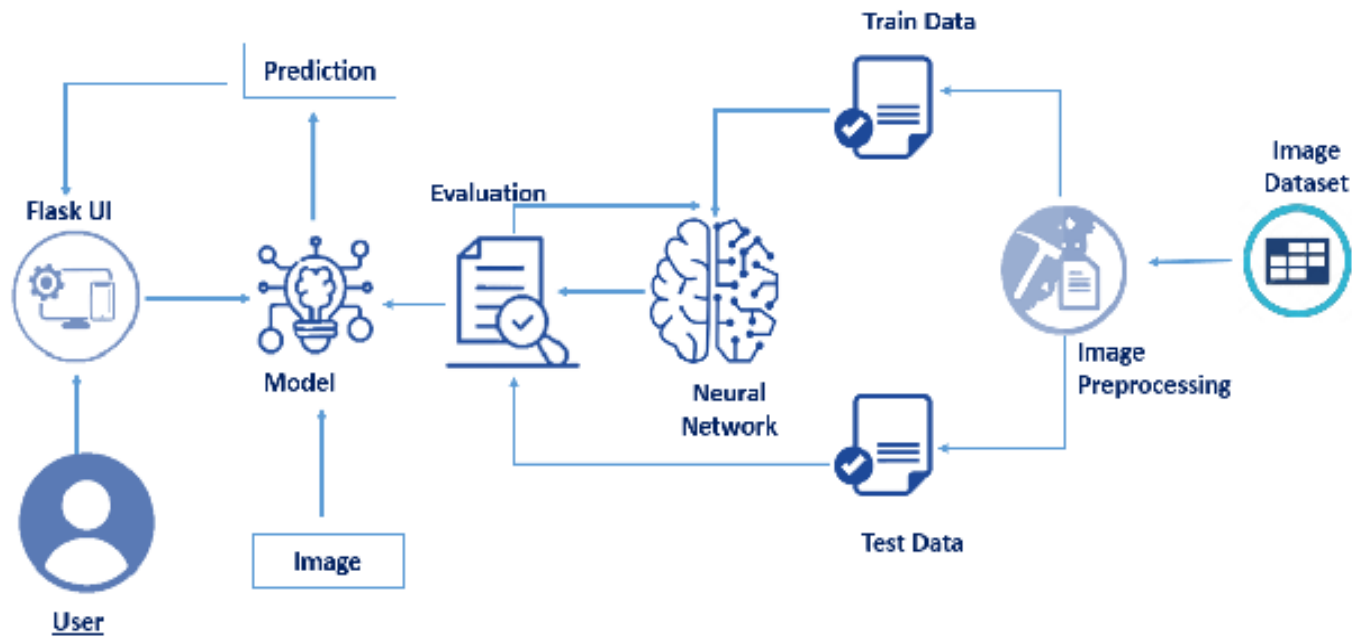


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User	Camera as input	Hand gesture
2.	Flask UI	It's is a front end framework	Python Flask
3.	CNN model	It recognition image and processing the image.	AI
4.	Neural network	Subset of Machine learning	AI
5.	Train data	Train the images	Pandas
6.	Test data	Test the images	Pandas
7.	Image Pre- processing	Format the image before they are used by model training and interface	Python
8.	Image dataset	Storage of images	Local system storage or IBM cloud DB

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask UI, Pandas and numpy.	Python
2.	Security Implementations	Detect malware, perform testing and preform scanning.	Python
3.	Scalable Architecture	It refer to a system network	Image pre-processing, Deep learning
4.	Availability	It's measure used to evaluate whether an application is functioning properly.	Python
5.	Performance	Transparency	Deep learning

