## Project Design Phase-I Solution Architecture

Date	16-11-2022		
Team ID	PNT2022TMID43692		
Project Name	Real-Time Communication System Powered by AI for Specially Abled		
Maximum Marks	4 Marks		

## **Solution Architecture**

Solution architecture is a complex process with many sub-processes that will be a bridges the gap between problems and technology solutions.

- Technology used are Python, Jupyter ,Numpy ,OpenCv ,Keras , Tensorflow , GTTS.
- Methodology -First we should collect the keypoints of hand gestures, face recoganisation, fingures action.
- The next step to build the LSTM model and train in our database. It will be useful to recoganised the hand geastures and face recoganisation.
- The number of epochs for the model is determined by us, if we increase the number of epochs the accuracy increases but time taken to run the model also increases and overfitting of model can happen, for gesture recognition
- we can use this model for real time hand gesture detection and simultaneously convert the gesture to speech or text using OpenCV

