

## PROJECT DESIGN PHASE – 1

### PROPOSED SOLUTION

|               |  |
|---------------|--|
| Date          | 27 October 2022  |
| Team ID       | PNT2022TMID22143   |
| Project Name  | Artificial Intelligence (Real time communication system powered by AI for specially abled) |
| Maximum Marks | 2 Marks  |

| S.No. | Parameter                                | Description   |
|-------|--|---|
| 1.    | Problem Statement (Problem to be solved) | Communication between a normal person and a dumb person has never been easy. Dumb people find it incredibly challenging to communicate with average people. Because hand sign language is not taught to the general public.   |
| 2.    | Idea / Solution description              | Therefore, we are using a convolution neural network to develop a model that is trained on various hand motions. A feature that makes use of this concept has been developed.   |
| 3.    | Novelty / Uniqueness                     | Due to this capability, people with cognitive disabilities can communicate by utilising signs, which are then translated into speech and understood by others.  |
| 4.    | Social Impact / Customer Satisfaction    | It might be quite challenging for them to communicate during crisis situations. When other kinds of communication, like speech, are not possible, the human hand has continued to be a common choice. To have a proper communication between a normal person and a handicapped person in any language, a voice conversion system with hand gesture recognition and translation will be helpful. |
| 5.    | Business Model (Revenue Model)           | Cost, viability from a financial standpoint, product as a service (model), and offer.   |
| 6.    | Scalability of the Solution              | While technology is constantly evolving, some substantial advancements are also being made for the benefit of these people.   |