

# **Project Design Phase- I Proposed Solution Template**

<i>Date</i>	<i>01 November 2023</i>
<i>Team ID</i>	<i>PNT2023TMID591898</i>
<i>Project Name</i>	<i>Hand Gesture Recognition</i>
<i>Maximum Marks</i>	<i>2 Marks</i>

## ***Proposed Solution Template:***

*Project team shall fill the following information in proposed solution template.*

<b><i>S.No</i></b>	<b><i>Parameter</i></b>	<b><i>Description</i></b>
<i>1.</i>	<i>Problem Statement (Problem to be solved)</i>	<i>How to make communication among people of different cultures and languages possible?</i>
<i>2.</i>	<i>Idea / Solution description</i>	<i>The program uses deep learning algorithms to detect and differentiate various hand gestures given to it through video input by the user with a webcam.</i>
<i>3.</i>	<i>Novelty / Uniqueness</i>	<i>The innovation that we propose is using a deep GAN (generative adversarial neural network) for collecting data and image classification algorithms for detecting hand gestures.</i>
<i>4.</i>	<i>Social Impact / Customer Satisfaction</i>	<i>To make technology such as AI and robotics accessible to everyone for efficient communication without language barriers through hand gestures.</i>
<i>5.</i>	<i>Business Model (Revenue Model)</i>	<i>Used in Industries like Healthcare &amp; VR to help make resources accessible to everyone hassle-free.</i>
<i>6.</i>	<i>Scalability of the Solution</i>	<i>It can provide options for integration into existing products by collaborating with established companies in the relevant industry.</i>