**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**Title of the Project:** Sign-Language video call

**Abstract:**

The "Sign Language Video Call" project is designed to bridge the communication gap, creating an inclusive web platform for seamless video calls between deaf and non-deaf individuals. The platform employs Convolutional Neural Networks (CNN) and Spontaneous American Gesture Recognition for precise sign language interpretation. Users indicate their hearing status during registration, personalizing their experience. Deaf users utilize webcams to express themselves through sign language, with the system translating gestures into words and sentences. Non-deaf users benefit from the choice between text-to-speech when receiving messages from the deaf user and speech-to-text when sending messages, ensuring mutual understanding. This project champions inclusivity and equal access to digital communication, breaking communication barriers to foster meaningful relationships and ensure unhindered interaction for all involved.

***Keywords:*** *Deaf users, Convolutional Neural Networks, Spontaneous American Gesture Recognition, Communication*

**Group No:** 13

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**Project Guide**

**(Guide name with Signature)**