

SignBridge: Bridging Communication Gaps with a Video Calling App for Inclusive Conversations – Integrating Sign-Language Recognition for the Deaf and Mute

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Abstract: “SignBridge” is a groundbreaking project aimed at revolutionizing communication enhancing individuals accessibility who hearing or speech impaired community. Our innovative video calling application seamlessly integrates state-of-the-art recognition of hand movements in SL technology, facilitating inclusive conversations like never before. With SignBridge, users can engage in real-time video calls and have their gestures employed in SL accurately interpreted and displayed to their conversation partners. By connecting and facilitating communication between the hearing impaired and the hearing world, SignBridge empowers individuals to convey their thoughts and feelings freely and participate fully in social interactions, education, and professional settings. This project represents a meaningful stride in fostering inclusivity and accessibility society, where all individuals can communicate effectively irrespective of their hearing capabilities.

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