

Sign Language Interpreter for Physically Challenged People

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Abstract: *This study introduces a novel sign language interpreter designed to improve accessibility and communication for those with physical disabilities, particularly those who experience hearing loss. Through the use of cutting-edge artificial intelligence and machine learning algorithms, the technology interprets sign language movements in real-time, removing social, professional, and educational communication barriers. By means of ongoing cooperation among researchers, technology developers, and individuals with physical disabilities, this invention hopes to make a substantial contribution towards the development of a more inclusive society. People of all physical capacities can actively interact, participate, and succeed in such a community. The fundamental ideas of a revolutionary technology that promotes acceptance, equality, and understanding at the formal, academic level are captured in this abstract.*

Keywords: TTS (Text-To-Speech), Feature Extraction