Sign Language Interpreter With Built in Translator

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The sign language interpreter with built in translator is a communication device that aims at improving communication between deaf and able hearing communities. The research was conducted with the aim of helping a minority community to adjust and be understood in the world, particularly in southern African countries. About 79% of the deaf people in this region are unemployed and segregated in the community due to the fact that they are deemed obsolete because of their disadvantage. This project aims to help reduce that feeling of unwantedness by implementing technology that can help both deaf and able hearing people to understand each other well and perhaps make everyone feel more a part of Zimbabwe and whatever country they originate from. With the help of Artificial Intelligence and copious amounts of machine learning algorithms I managed to construct an ideal prototype that has been learning and analyzing the various language signages and their respective translation sets. This interpreter is one step closer to achieving equality between the two communities as it will increase privacy for deaf people, reduce extra costs of needing to hire an interpreter all while encouraging and raising awareness of the deaf community and their need to be accepted and given the same opportunities as any other individual. Once implemented in hospitals, restaurants, banks et cetera, this model will improve communication by a large factor.

Awards Won:

King Abdulaziz &amp

his Companions Foundation for Giftedness and Creativity: Full Scholarship from King Fahd University of Petroleum and Minerals(KFUPM) (and a $400 cash prize)