VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM

A Project Report on

GESTURE VOCALIZER

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In Electronics & Communication Engineering
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ABSTRACT

Gesture vocalizer is a large scale microcontroller based system being designed to facilitate the communication among the dumb and deaf communities and their communication with the normal people. This system can be dynamically reconfigured to work as a "smart device". Gesture vocalizer discussed is basically a data glove and a microcontroller based system. Data glove can detect almost all the movements of a hand and microcontroller based system converts some specified movements into human recognizable voice. The data glove is equipped with two types of sensors: The bend sensors and accelerometers as tilt sensors. This system is beneficial for dumb people such that their hands will speak having worn the gesture vocalizer data glove.