**Translation of Gestures to Text using Microsoft Kinect**

**Team Member Roll Number**

Aneesh S 12IT06

Kartik Koralla 12IT33

Keerthi Prasad N 12IT34

**Abstract**

Our Project deals with Recognition of Gestures and Speech and its translation to text. This project is aimed at helping hearing-impaired people to communicate with common people effectively by using their sign language. By utilizing Microsoft Kinect technology, the hearing-impaired people only need to stand in front of the Kinect camera and deliver messages using sign language. This will be converted to text efficiently. Also, normal people may directly reply using their common spoken language which is then translated into written language. This project utilizes the Microsoft Kinect SDK for gesture recognition and also to train the system with new gestures. Microsoft Kinect has been extensively used in association with Xboxes for gaming purposes. This project tries to exploit Kinect SDK for practical purposes of communication. Existing translation algorithms are still not perfect. In this context, this project offers a lot of scope for improvement and future work.