

## ABSTRACT

It is really difficult for people with disability to control mouse. With help of touchless techniques of Human Computer Interaction, the disabled people will be able to experience the digitalized technologies. We propose a CNN-based approach for controlling mouse cursor using eyeball movement which is implemented using Python. The proposed method aims to provide an intuitive and natural way of computer interaction for individuals with disabilities or mobility impairments. The system uses a CNN model to accurately track the user's eye movements, which are then translated into cursor movements on a computer screen. By studying the concept of packages in problem solving and Python programming, we have implemented speech translation. We have used dlib, OpenCV, gTTS library for implementing our concept. The effectiveness of the proposed system was evaluated through experiments, which demonstrated its potential as a viable alternative to traditional mouse control methods. Along with mouse cursor control we have integrated speech recognition which helps the user to open applications using voice. Overall, the proposed approach can have a significant impact on the lives of individuals with disabilities by providing an accessible and effective means of computer interaction.