**Virtual Mouse with hand gestures Tracking using Image Processing**

The technique of establishing a process of interaction between human and computer is evolving since the invention of computer technology. A specific interactive module like a virtual mouse that makes use of Object Tracking and Gestures that will help us to interact which can be an alternative way for the traditional touch screen and the physical mouse. In this project an Object Tracking application that interacts with the system to provide mouse functionalities is created.

Python and OpenCV library is used for realtime computer vision to implement the system. The camera output is displayed on the monitor. This system allows the user to navigate the system cursor using their hand bearing color caps or tapes that the computer webcam tracks and perform mouse operations like left-click, right-click, and double click using different hand gestures.

**Team Members:**

17311A05M5 B.Teja Swaroop

17311A05M3 P.Dinesh Kumar

17311A05M2 Y.Yashua Krupason

**Internal Guide Project Coordinator Head of the Department**

Mr. R. Arun Kumar Mrs. Pallepati Vasavi Dr. Aruna Varanasi