

7th SEM 'C'

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1. Fashion Accessories using Virtual Mirror

VR has attracted a lot of interest of people in last few years. One of the broad concepts in virtual reality is virtual mirror. Virtual Mirror is a computerized generated mirror that acts like a real mirror which allows a person to see himself/herself for various application. The application “Fashion Accessories Using Virtual Mirror” is a online shopping website which we will be implementing as our project. Our project is restricted to face related fashion accessories like eyeglasses, earrings, caps/hats etc. Thus the system will be the visualization of fashion accessories for the face that a person can try and watch in front of a mirror although they do not exist in reality. This is achieved by using webcam of the user’s laptop.

2. Sign Language Recognition

The Sign language is very important for people who have hearing and speaking deficiency generally called Deaf and Mute. It is the only mode of communication for such people to convey their messages and it becomes very important for people to understand their language. the method or algorithm for an application which would help in recognizing the different signs which is called Indian Sign Language. The images are of the palm side of right and left hand and are loaded at runtime. The method has been developed with respect to single user. The real time images will be captured first and then stored in directory and on recently captured image and feature extraction will take place to identify which sign has been articulated by the user through SIFT (scale invariance Fourier transform) algorithm.

3.DROWSINESS ALERT SYSTEM FOR DRIVERS

Drowsiness of the drivers is the main cause of accidents in the world. Due to lack of sleep and tiredness, drowsiness can occur while driving. The best way to avoid accidents caused by drivers drowsiness is to detect drowsiness of the driver and warn him before he falls asleep. The system uses camera that point towards eyes of the driver in order to detect fatigue. The objective of this project is to build a drowsiness detection system that will detect that a person's eyes are closed for a few seconds. In such cases when fatigue is detected, warning signal is issued by the driver.

4.Voice based Email for Blind peoples

As the title suggests, the application will be web-based application for blind persons using interactive voice response, thus enabling everyone to control their mail accounts using their voice only and to be able to read, send and perform all the other useful tasks. The system will prompt user with voice commands to perform certain action and the user will respond to the same. The main benefit of this system is that the use of key-board is completely eliminated, the user will have to respond through voice and mouse click only. Now you must be thinking that how will a blind person will able to see the correct position on the screen for doing mouse clicks. But this system will perform actions based on clicks only that is left click or right click, it does not depends on the position of the screen where the cursor is placed before the click giving user the freedom to click blindly anywhere on the screen.