**Virtual dressing room project using python**

**Abstract:-**

In todays digital world, people are more focusing to shop for their apparels online using e-commerce sites like amazon,flipkart, myntra,etc.

This virtual dressing room concept provides solution to the ecommerce site where customers can look and feel apparels by trying clothes and apparels virtually on themself, at the site itself. No need to go to trial room or anywhere else. This is mainly an **Augmented reality** concept.

This is one of the best and innovative solution, which is the future of online shopping.

In this project we will make a website using HTML,CSS and apply the virtual tryon algorithm using python.

Customers will have two options:-

1. Try one by one- Here customer can try any apparel by clicking on the specific apparel “try” button.
2. Try all - Here customer have an option to add all the desired apparel in the cart and then try all of them one by one. Here a GUI will be opened where all selected apparels will be displayed and user get an option to click each apparel individually and try on them.

**Technologies used:-**

**Backend:-**

**Programming:-**

1. Python
2. Flask framework
3. Tkinter(for tryon GUI)

**For facial and body recognition:-**

1. OpenCv
2. Dlib
3. Haar cascade dataset

**Frontend:-**

1. HTML
2. CSS
3. Java script
4. Bootstrap

**Approach:-**

Virtual Dressing room is an augmented reality dressing room where the image of the user is captured by the webcam and given as an input. By using the face and body detection techniques, the video is scanned for the presence of human faces and product images are then masked. Now the masked image is superimposed and the user can see the images of the dresses and face accessories on self.

Thanks.