

Domain: Computer Vision

Batch No. D26



G. Narayanamma Institute of Technology & Science (For Women) (Autonomous)

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Shaikpet, Hyderabad-500104

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (DATA SCIENCE)

<GN-R-18> (2022 - 2023) II B.Tech II Sem Hobby Project

on

“Trial It”

Abstract

Computer vision is a field of artificial intelligence (AI) that focuses on enabling machines to interpret and understand visual information from the world around them. It involves training algorithms to recognize and classify objects, detect and track motion, and inference depth and distance from 2-D pictures or videos.

Computer vision is essential in the development of virtual trial rooms as it allows users to see how clothing would look on them without physically trying them on. It uses algorithms and machine learning to identify and analyze and enabling accurate body parsing, garment segmentation, and garment synthesis.

Virtual Trial Room app is designed to provide customers with a more immersive and interactive shopping experience by allowing customers to try on clothes in an well-defined user interface and see how they look without physically being present in the showroom. Computer vision technology allows users to upload a photo of themselves and then try on clothes virtually. Image Segmentation, Edge Detection, Pose Estimation, Blending is used to segment the clothing region in the source image and wrap it on destination images. A dataset consisting of high-quality product images is used for creating a realistic virtual try-on experience.

Hardware Requirements: Camera, i5 processor, Laptop (8GB Memory, 512GB SSD)

Software Requirements: Computer Vision, Deep Learning, Flutlab, Databases

*Dept R&D: No

* If No : GNITS




R No : 21251A6742
Name: G. Sai Premika
Mail Id: premikareddyg34@gmail.com
Phone : 9390539373



R No : 21251A6748
Name: M. Gayathri
Mail Id: manchikantigayathri2003@gmail.com
Phone : 8639271358


Project Coordinator


PRINCIPAL
G. Narayanamma Institute of
Technology & Science (for woman),
(AUTONOMOUS)
Shaikpet, Hyderabad - 500 104


Head of Department