FINAL YEAR PROJECT REPORT

CLOTH SIZE PREDICTION SYSTEM USING COMPUTER VISION

In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)

By

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SUPERVISED

BY

MISS SAMEENA JAVED

BAHRIA UNIVERSITY (KARACHI CAMPUS)

FALL-2022

DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions

Signature : 

Name : Syed Hashir Sohail

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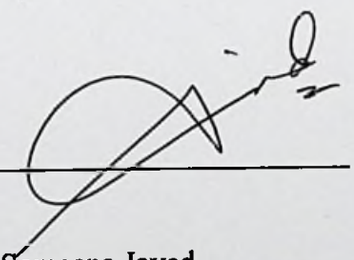
Date : 30/01/23

APPROVAL FOR SUBMISSION

We certify that this project report entitled **"CLOTH SIZE PREDICTION SYSTEM USING COMPUTER VISION"** was prepared by **Syed Hashir Sohail** and **Hasan Bin Faysal** has met the required standard for submission in full fulfillment of the requirements for the award of **Bachelor of Science in Computer Science** at Bahria University.

Approved by,

Signature : 

Supervisor : Ms Sameena Javed

Date : 30/01/23

Specially dedicated to

my beloved father and mother

(Syed Hashir Sohail)

my beloved father and mother

(Hasan Bin Faysal)

ACKNOWLEDGEMENT

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express our gratitude to the research supervisor, Miss Sameena Javed for her invaluable advice, guidance and her enormous patience throughout the development of the research.

In addition, we would also like to express our gratitude to our loving parent and friends who had helped and given us encouragement.

CLOTH SIZE PREDICTION SYSTEM USING COMPUTER VISION

ABSTRACT

In this project we decided to make a size prediction system that would measure and predict the size of people based on camera footage, The reason for this is the growing amount of uneasiness between people due to the covid outbreak, policies and behavioural changes that came along with that, going to a store and asking someone to measure your size is very anxiety inducing for most people, not to mention the workers at the shop which would like to be covid free as well, secondly changing rooms or try out rooms which were a common place to check clothing before buying have been deemed unusable due to being occupied by people, and anything that has to be shared has the highest chance of passing on covid. So, we decided to make a system that would measure size without needing any human intervention. We had multiple plans of action to achieve the means but we settled on using purely camera and computer vision due to the vast of amount of research that has already been done in detecting human bodies through computer vision, also the python libraries that help and facilitate machine learning and model creation are a blessing to have, working on any kind of third party non-conventional system would make things harder and not scalable. So, We decided to use computer vision to identify human bodies and measure them using distance equations, Once done we outputted the data to a excel sheet, from which we can read the data into a website and recommend clothes from there. In this endeavour we chose to make a size prediction framework that would gauge and foresee the size of individuals in light of camera perspective using Computer Vision.

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