Department of Electrical and Computer Engineering

North South University

CSE499 Senior Design Project Report
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Application of Virtual Try-On Models to Bangladeshi Clothes

Group 2

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Declaration

This is to certify that this project is our original work. No part of this work has been submitted elsewhere partially or fully for the award of any other degree or diploma. Any material reproduced in this project has been properly acknowledged.

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Approval

The capstone project entitled *"Application of Virtual Try-On Models to Bangladeshi Clothes"* by Guru Ananda Gayen 1631229642, Akash Lanard 1721271642, Mahir Tahmid 1821954642 and Mehran Siddiqui 1822107642 is approved in partial fulfilment of the requirement of the Degree of Bachelor of Science in Computer Science and Engineering and has been accepted as satisfactory.

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Abstract.

Virtual try-on is a challenging task that has attracted a lot of interest in recent years due to its potential for augmenting online clothes shopping. All work done in this area has been based on datasets of western clothing, primarily tops. Such clothing is generally easier to work with, due to the fact that it is tight-fitting and consists of a single clothing item. Bangladeshi clothes in contrast are loose-fitting, resulting in a loss of information which makes the virtual try-on task especially difficult. We collect a Bangladeshi dataset and perform virtual try-on with two existing state-of-the-art models. We provide both quantitative and qualitative analyses. We achieve an inception score of 2.2449 and 2.6083 on two different models. Qualitatively, the outputs are error-prone, however some results indicate that with some improvement, virtual try-on on Bangladeshi clothes can be feasible.