

Comparing Generative Models for virtual try on

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1 Virtual Try on

Introduction: Our research endeavors to evaluate cutting-edge generative models for virtual try-on applications, particularly in the context of clothing. By assessing these models across diverse lighting conditions, angles, and backgrounds, we aim to identify the most effective solution for practical applications.

1.1 Proposed Work

This research aims to comprehensively evaluate the latest virtual try-on and generative image models for rendering clothing.

Key objectives include:

- Assessing photorealism and fidelity of generated images across models
- Benchmarking models on the diversity of lighting conditions, angles, and backgrounds

1.2 Model

The following models are being considered for our benchmarking process based on their ability to generate images as required in the task.

- DCI-VTON-Virtual-Try-On
- StableVITON
- Disentangled Cycle Consistency for Highly-realistic Virtual Try-On
- FICE: Text-Conditioned Fashion Image Editing With Guided GAN Inversion

1.3 Dataset

We'll be using the VITON dataset, a standard benchmark in virtual try-on research. This dataset comprises images of individuals wearing various garments, providing diverse clothing styles and textures.

1.4 Evaluation Methodology

To rigorously evaluate the generative models, we will compute quantitative metrics like FID (Fréchet inception distance) and IS (Inception Score) to assess image quality.