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Generative Fashion Design Web Platform

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Abstract: The emergence of generative design technologies and artificial intelligence (AI) has transformed multiple industries, including fashion. A new paradigm in fashion design involves creating personalized clothing experiences by leveraging face and body shape customization. This paper introduces a web platform that allows users to input their face images and adjust body shapes to simulate and try on new dresses. The platform combines generative fashion design algorithms, machine learning, and 3D rendering technologies to generate realistic fashion visualizations. This paper discusses the platform's architecture, the technological innovations behind it, the challenges of personalization, and the potential impact of this technology on the fashion industry, consumer behavior, and sustainable design practices

Keywords: Generative design, fashion technology, AI-driven customization, personalized fashion, virtual try-on, body shape simulation, machine learning, web platform.

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