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Final Project



PROJECT TITLE



Image Generation using GAN

AGENDA

- 1. Problem Statement
- 2. Project Overview
- 3. Who Are The End Users
- 4. Solution And It's Value Proposition
- 5. The Wow In The Solution
- 6. Modelling
- 7. Result



PROBLEM STATEMENT

Developing a Generative Adversarial Network (GAN) model to generate high-quality, diverse images from a given dataset, with the aim of creating realistic and novel visual content across various domains.



PROJECT OVERVIEW

Utilizing GANs for image generation, this project aims to train a model on a dataset to produce realistic and diverse images. Through adversarial training, the generator and discriminator networks compete to improve image quality. Applications include art, fashion, gaming, and content creation, with tasks including data preprocessing, model training, and evaluation for optimal performance.



WHO ARE THE END USERS?

End users for image generation using GANs include artists, designers, content creators, game developers, filmmakers, researchers, healthcare professionals, and architects, who leverage generated images for creative projects, marketing, virtual environments, research, and visualizations.

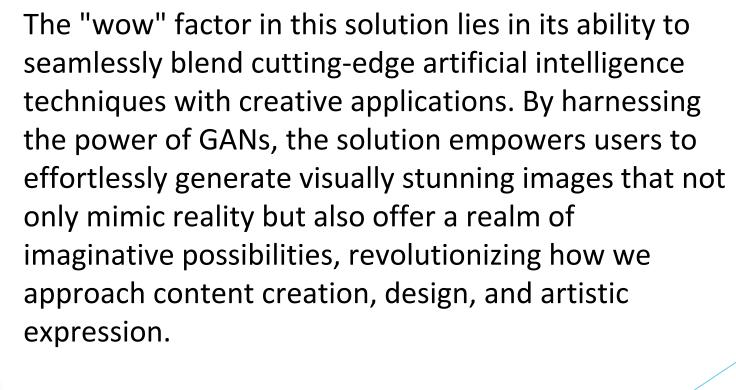
YOUR SOLUTION AND ITS VALUE PROPOSITION



Our image generation using GANs offers a sophisticated Al-driven approach to create high-quality, diverse images with realistic details and novel variations. This solution provides users across various industries with a powerful tool to streamline creative processes, enhance visual content, and unlock new possibilities for artistic expression, marketing, simulation, research, and design.

THE WOW IN YOUR SOLUTION







MODELLING

The modeling of this project entails architecting a Generative Adversarial Network (GAN) with optimized neural network structures and training parameters. It involves selecting suitable activation functions, optimization algorithms, and regularization techniques to enhance model stability and convergence. Advanced GAN variants like conditional GANs or progressive GANs may be explored to achieve tailored image generation objectives.

3/21/2024 Ar hual Review

RESULTS

The result of this project is a trained Generative Adversarial Network (GAN) model capable of generating high-quality, diverse images that closely resemble the training data while exhibiting novel variations. This enables users to produce realistic and visually compelling images across various domains such as art, fashion, gaming, and content creation, thereby unlocking new avenues for creative expression and innovation.

