IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal
Impact Factor: 7.67
Volume 5, Issue 2, March 2025

Visual Genesis AI

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Abstract: *VISUAL GENESIS AI is an advanced multimedia generation platform that utilizes artificial intelligence (AI) to create images, videos, and music in a user-friendly and efficient manner. The system integrates cutting-edge AI technologies, including deep learning models such as Generative Adversarial Networks , Transformer-based models, and Long Short-Term Memory networks, to automate the creative process. Designed with a Node.js backend for real-time performance and scalability, VISUAL GENESIS AI simplifies the creation of high-quality digital media for users across diverse industries, from entertainment and advertising to education and content creation.*

The project addresses the increasing demand for AI-assisted creative tools that can meet the growing expectations of digital content consumers. By providing an integrated platform that supports multiple media types, VISUAL GENESIS AI distinguishes itself from existing single media tools, offering an all-in-one solution for creators who need to generate a variety of content types. Users can generate images from textual descriptions, synthesize original video clips from images or video prompts, and compose music tracks based on a range of parameters such as mood, genre, and tempo.

This platform is especially useful for those without specialized knowledge in media production or AI, as its intuitive user interface and underlying automation reduce the complexity traditionally associated with these tasks. The system also leverages the capabilities of Node.js for seamless performance and scalability, ensuring that even large-scale projects can be executed efficiently.

Keywords: Generative Adversarial Networks(GANs), Variational Autoencoder (VAE), Recurrent Neural Network (RNN), Convolutional Neural Network (CNN), Artificial Intelligence (AI), Long Short Term Memory (LSTM)