

Rohit Das

Deep Learning Engineer

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Profiles

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Summary

Rohit Das is a Generative AI Engineer specializing in 3D Reconstruction, Texture Generation using Generative AI

Experience

Bifrost AI 2023/09 - Present
AI Engineer (Intern) Remote
https://www.bifrost.ai

Deployed cutting-edge models across multiple products, with a primary focus on texture generation from textual input. Significantly optimized time efficiency, decreasing computational time from hours to mere minutes.

CI3D- Colour Imaging 3D Lab 2022/02 - 2023/07
Junior Researcher Taipei City, Taiwan
Topic of Research -Texture Estimation from One Shot Image

Projects

3D-GANTex: 3D Face Reconstruction with StyleGAN3-based Multi-View Images and 3DDFA based Mesh Generation
A state-of-the-art model distinguished by its capability to produce multi-view outputs with near-accurate 3D mesh and texture representations from a single face image

- This unique model excels in generating precise texture maps and 3D meshes from singular images.
- Key advantages include enhanced face recognition for previously unseen areas and a robust multi-view consistency.
- However, it is important to note certain limitations, such as the reliance on estimated faces derived from latent space and the fact that the extracted 3D mesh is an estimation.

GAN, 3DDFA, StyleGAN3, Latent Space, PyTorch

FasTEX - Fast Text to Texture Generation
An advanced pipeline that, upon receiving textual input, generates textures suitable for mesh inpainting

- This innovation stands out as the fastest solution in the market.
- However, it is essential to acknowledge the identified drawback related to interpolation issues.

Blender, Neural Rendering, Stable Diffusion, and ControlNet

Education

National Taiwan Normal University 2021- 2023
Computer Science and Information Engineering Masters
3.8

Skills

Python Intermediate ● ● ● ● ○	Blender Intermediate ● ● ● ● ○	PyTorch Intermediate ● ● ● ○ ○	ControlNet Intermediate ● ● ● ● ○
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Stable Diffusion
Intermediate
● ● ● ○ ○

Languages
English
Expert
● ● ● ● ●

Hindi
Expert
● ● ● ● ●

Chinese
Elementary