Rohit Das

Deep Learning Engineer

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Profiles

 rohit7044
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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

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

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

Education

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

Skills

Python	Blender	PyTorch	ControlNet
Intermediate	Intermediate	Intermediate	Intermediate
●●●●○	●●●●○	●●●○○	●●●●○

Stable Diffusion
Intermediate
●●●○○

Languages

English	Hindi	Chinese
Expert	Expert	Elementary
●●●●●	●●●●●	