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 Vision especially 3D Reconstruction and Texture Generation

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Experience

Bifrost AI	**2023/09 - 2024/02**	**CI3D- Colour Imaging 3D Lab**	**2022/02 - 2023/07**
AI Engineer (Intern)	Remote	Junior Researcher	Taipei City, Taiwan
https://www.bifrost.ai		Topic of Research -Texture Estimation from One Shot Image	

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.

Projects

FasTEX - Fast Text to Texture Generation

Generate textures for mesh using Stable Diffusion

- Currently the fastest texture generation in the market
- Needs better interpolation ideas

Blender, Neural Rendering, Stable Diffusion, ControlNet

3DGANTex: 3D Face Reconstruction with StyleGAN3-based Texture Synthesis from Multi-View Images

- A novel approach for texture estimation from a single image using a generative adversarial network (StyleGAN3) and 3D Dense Face Alignment (3DDFA).
- The SOTA method begins by generating multi-view faces using the latent space of StyleGAN3 using Restyle encoder. Then 3DDFA generate a high-resolution texture map and map it to 3D model that is consistent with the estimated face shape.
- The only drawback of this method is generating texture from Single image which is not feasible

3D Reconstruction, GAN, 3DDFA

Education

National Taiwan Normal University	**2021- 2023**	**Camellia Institute of Technology**	**2014-2018**
Computer Science and Information Engineering	Masters	Computer Science and Engineering	Bachelors
3.8		6.8	
https://www.ntnu.edu.tw/		https://camelliait.ac.in/	

Skills

Stable Diffusion	**Neural Rendering**	**LLM**	**NeRF**
Intermediate	Intermediate	Intermediate	Intermediate
Gaussian Splat	**PyTorch3D**		
Intermediate	Intermediate		

Languages

English	**Hindi**	**Chinese**
Expert	Expert	Elementary