

Akash Mondal

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WORK EXPERIENCE

Yash Technologies

Feb. 2024 – Apr. 2024

Data Science Intern (Hybrid)

Indore , Madhya Pradesh , India

- Developed a State-of-the-Art Virtual Try-On (SOTA VTON) web application using Streamlit, enabling users to virtually try on garments on model images and search for garments from various e-commerce websites.
- Implemented a multi-view diffusion model to generate GIFs showcasing output images from different angles, enhancing user experience and visualization. (Novel View Generation)
- Utilized various deep learning techniques including image segmentation (Hugging Face SegFormer model), Stable Diffusion inpainting models with ControlNet, and IDM-VTON for accurate and realistic virtual try-on results.

Bharat Heavy Electricals Limited (BHEL)

Aug. 2023 – Sep. 2023

DataCenter Intern (On Site)

Hyderabad, Telangana , India

- Collaborated with a cross-functional team to implement a Temperature Monitoring and Control System for data centers.
- Utilized NetBeans, Java, and JavaServer Pages (JSP) to develop a robust system for real-time temperature monitoring.
- Integrated Internet of Things (IoT) sensors and Arduino microcontrollers to collect data and ensure optimal operating conditions.
- Maintained and managed Oracle Database for storing temperature data and generating reports.

MathWorks

May. 2023 – Sep. 2023

Machine Learning Intern (Remote)

- Independently learned and implemented machine learning techniques, particularly using MATLAB for image processing, signal processing and deep learning.
- Developed a strong understanding of MATLAB and its applications in the fields of AI and machine learning.
- Worked remotely, demonstrating self-motivation and a dedication to acquiring new skills and knowledge.

EDUCATION

VIT Chennai

2021-2025

B.Tech , Computer Science Engineering Spl. Cyber Physical Systems

Chennai , Tamil Nadu

CERTIFICATIONS & PROJECTS

- Winner of Yash Technothrive23 , National Level Hackathon on Generative AI
- Honorary Runner-Up in Intel® and Awiros App-a-thon 2.0 , National Level Computer Vision Hackathon
- Secured Top 10 in Student Innovation Festival (ISRO Space Hackathon)
- Winner of Valeo Sustainability Hackathon Conducted by Vaelo in Collaboration with VIT Chennai
- Winner of Samsung PRISM GenAI Hackathon

Projects Spotlight

1. *StellarFrames* || *Hyper-Personalized Advertisement Using GenAI* ||

August 2023 - September 2023

- Led the development of "StellarFrames," an innovative project focused on creating hyper-personalized advertisements using Generative AI , Winning a National Level Hackathon.

2. *Project Dark* | | *Scalable Ecosystem for Busting Dark Patterns in eCommerce Websites* | |

January 2024

- Developed a scalable ecosystem aimed at identifying and mitigating dark patterns in eCommerce websites.
- Utilized AI and generative AI techniques to analyze and detect manipulative design patterns.
- Conducted the project as part of an initiative with VIT University (Chennai Campus) and IIT Varanasi (BHU)

3. *SHRESHTH* | | *Bilingual Multimodal Voice-Activated Assistant* | |

October 2023 - January 2024

- Created a voice-activated assistant for Indian Space Research Organization (ISRO) that uses Retrieval Augmented Generation for performing QnA on provided documents .
- Integrated Automatic Speech Recognition (ASR), Large Language Models (LLM), Neural Machine Translation (NMT), and Text-to-Speech synthesis.

4. *Seamless AI* | | *Multimodal AI Suite for Diverse User Interactions* | |

June 2023 - August 2023

- Developed Seamless AI, a suite combining NLP, computer vision, and multimodal capabilities to support interactions in 11 Indian languages.
- Integrated models like Mixtral 8x7B for text generation, Bhashini Suite for ASR and NMT, and FireLLaVA 13B for multimodal processing.
- Winner of Samsung PRISM GenAI Hackathon