

SIJAN PANDAY

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Education

Arkansas Tech University (Russellville, Arkansas)

2021-Present

Bachelors of Science in Computer Science

3.8 GPA

Associates in Information and Technology

Minor in Mathematics

Certificate of Proficiency in Computer Programming

2023

Arkansas Tech University

Work and Research Experience

Arkansas TechAI Hub

2022-Present

Researcher

- Diligently contribute to the publication of impactful Machine Learning papers showcasing annual project outcomes, employing advanced techniques through Python and Jupyter Notebook. Collaborate closely with research leadership, offering invaluable data-driven insights and formulating hypotheses that drive the direction of the projects.

Publications

- "Crime Prediction Using Machine Learning: The Case of The City of Little Rock"
Published in 2023 5th International Congress on Human-Computer Interaction, Optimization and Robotic Applications (HORA), Istanbul, Turkiye, 2023

Awards

- 1st Place Best Research at Arkansas Academy of Science Research Conference, Arkansas, 2023
- 1st Place Best Project Arkansas Tech University Research Symposium, Arkansas, 2023
- Arkansas Tech University Undergraduate Research Grant for PUAA: "Personal University AI Assistant"

ATU Residence Life

2022-Present

Housing Ambassador

- Conducted campus tours, front desk services, and key events, ensuring a positive experience for students and guests while promoting Residence Life services.
- Upheld campus policies, managed student communications, and served as an inclusive role model, emphasizing diversity and customer service excellence.

Personal Projects

TechAI Website

2023

- Spearheaded the development of the TechAI Website in 2023, demonstrating proficiency in advanced web technologies.
- Utilized Next.js/React framework with Typescript for the frontend and Flask for the backend, showcasing a deep understanding of modern web development.
- Drove innovation by creating a custom Python-based web scraping tool, elevating the website's functionality which served as a showcase for upcoming initiatives.

AI Image Swap

2023

- Pioneered the development of resource-efficient AI Image Swap in 2023, showcasing expertise in cutting-edge machine learning libraries. Crafted a groundbreaking face swapping program that pushed the boundaries of image processing in AI, leveraging the power of InsightFace. Demonstrated a profound understanding of machine learning and image processing techniques, resulting in a remarkable project.

Technical Skills

Languages: Proficient in a diverse array of programming languages, including Python, C++, SQL, JavaScript/TypeScript, HTML, and CSS.

Developer Tools: Adept in using a wide range of developer tools, such as Visual Studio Code, Google Colab, Visual Studio, and Jupyter Notebook.

Technologies/Frameworks: Well-versed in leading-edge technologies and frameworks, including Next.js, React, Flask, Django, NumPy, Pandas, Matplotlib, TensorFlow, and PyTorch.