Shane Joans

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Summary — I am an organised, efficient student, and am willing to discover and accept new ideas which can be put into practice effectively.

Skills and Technologies

Skills

- Python
- HTML
- CSS
- Java
- SQL

Technologies Known

- TensorFlow
- Flask
- MariaDB
- MySQL
- Gen AI
- LangChain
- RAG models

Experience

Hackathons:

CTRL+ALT+HACK 2025 **First Prize Winner**

- Team Name: Elden Lords
- Developed a deepfake detection and autoencoder reconstruction project based on CNN algorithm
- Won first prize and a cash reward of INR 10,000
- Collaborated with a team of four members to achieve top performance

PSG Tech Kriya 25 Symposium - TaskOps Hackathon **First Prize Winner**

- Led a team of four members to victory in a high-stakes gold event with a prize pool of INR 6,00,000
- Developed a secure one-time file-sharing system
- Successfully completed initial task-based rounds to earn resources for building the final project
- Won first prize and a cash reward of INR 7500

Education

Loyola ICAM College of Engineering and Technology
Bachelor of Engineering in Computer Science(CGPA:7.90) *2023-2027*
Sai Vidhya Nikethan Matric Hr Secondary School
Computer Science *2021-2023*

Certifications

- AI - AI Mastery Bootcamp(Udemy)
- Prompt Design in Vertex AI (Google)
- Build Real World AI Applications with Gemini and Imagen(Google)
- Java- Fundamentals and Foundations Of Java(Oracle Academy)
- Mistral Al Development: Al with Mistral, LangChain & Ollama(Udemy)

Projects

Student Carpooling Network(Prototype) **Sep 2023-Oct 2023**

- Carpooling can help students save money on fuel and transportation costs by sharing rides.
- It alleviates traffic congestion around schools and campuses, making commuting smoother experience for everyone.
- Reviewed for Envision'23 by internal faculty.

SMART-Signal Management and Adaptive Response using Traffic data **Aug 2024 – Sep 2024**

- Used to Reduce Traffic congestions via Deep Learning (YOLOv5)
- Reviewed for Smart India Hackathon by internal faculty.
- Used image recognition and Signal the traffic lights based on Count using Pre trained Model.

Injury Detection For Emergencies **Jan 2025 – Present**

- Used to detect injuries during medical emergencies in ambulance to give proper first aid.
- Trained and tested model using custom injury dataset to recognize between Skin Inflammation and Foot ulcer.
- Working on the project.

Deepfake Detection and Autoencoder Reconstruction **Feb 2025 – Present**

- Developed a deepfake detection system leveraging CNN-based algorithms for enhanced security
- Implemented an autoencoder for reconstructing manipulated images to verify authenticity
- Designed for improved accuracy in detecting AI-generated facial manipulations
- **Tech Stack:** [**FRONTEND:** Html, CSS, JavaScript, **BACKEND:** Flask, **ML Algorithms:** CNN, TensorFlow]

Secure One-Time File Sharing System **Mar 2025**

- Built a secure file-sharing system ensuring one-time access and confidentiality
- Implemented encryption techniques to protect sensitive data transfers
- Designed a resource allocation model where teams earned credits to acquire necessary tools
- **Tech Stack:** [**FRONTEND:** Streamlit, **BACKEND:** Flask, **Database:** MariaDB(XAMPP)]