

SUDHARSAN.S

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Highly motivated and detail-oriented Artificial Intelligence and Data Science undergraduate with strong foundations in Python programming, machine learning, and deep learning. Experienced in building end-to-end AI projects across areas like computer vision, language models, and automation. Skilled in problem-solving, fast learning, and deploying practical solutions using open-source tools and modern tech stacks.

AREA OF EXPERTISE

Computer Vision	Large Language Models(LLM)	Deep Learning
AI System Design	Python Programming	Full-Stack AI Integration

PROFESSIONAL EXPERIENCE

Shabythenoob Python Developer Intern	07/2024 - 12/2024
- Developed backend components for an AI-powered attendance system using Python, focusing on real-time face recognition and data processing. - Integrated cloud-based services (Firebase Realtime Database & Authentication) to securely manage user data and event logging. - Collaborated with frontend developers to support seamless communication between the detection engine and the admin interface, enabling real-time updates and user management features.	
Mentorness Machine Learning Intern	01/2024 - 02/2024
- Researched and authored an article on Principal Component Analysis (PCA) and its dimensionality reduction techniques. - Developed machine learning models predicting credit card application approval/rejection. - Ensured data quality, and preprocessing, and collaborated with cross-functional teams. - Utilized time series data to forecast furniture sales for a retail store, applying advanced ML techniques capturing seasonality, trends, and business dynamics.	
Skillvertex Artificial Intelligence Intern	06/2023 - 08/2023
- Involved in the training process of ML algorithms and concepts of Deep Learning and NLP. - Engaged in real-time projects including Rice image classification and Natural Language Processing.. - Acquired knowledge in relevant fields by improving practical skills.	

PROJECTS

Vison Pivot - Real-Time Face-Based Attendance System Python, OpenCV, FaceNet, MTCNN, Firebase, React.js	Github Repo
- Built a real-time face recognition attendance system using FaceNet + Firebase, with anti-spoofing and voice alerts. - Integrated with a React dashboard for secure admin login, live monitoring, and CSV export.	
LLM-Powered LinkedIn Post Generator – Offline LinkedIn Content Creation Python, HuggingFace Transformers, TinyLLaMA, LoRA, PEFT, PyTorch, Flask	Github Repo
- Fine-tuned TinyLLaMA locally using LoRA to generate personalized LinkedIn posts based on theme and tone — fully offline. - Built a Python-based generation pipeline with a simple UI, eliminating the need for OpenAI or external APIs.	

EDUCATION

KCG College of Technology B.Tech Artificial Intelligence and Data Science	2022 - 2025
Nandha Polytechnic college Diploma In Computer Science	2019 - 2022

ADDITIONAL INFORMATION

Languages: English, Tamil