

SAI NIVEDH V

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Education

Amrita Vishwa Vidyapeetham

B.Tech. in CSE with specialization in Artificial Intelligence

Aug 2023 – June 2027

CGPA: 8.1/10

Technical Skills

Languages and frameworks: Python, Java, C, SQL, JavaScript, Django, Flask, FastAPI, React, Tailwind, Bootstrap, Material3, Go, Git, Postman, Docker, Jenkins, CI/CD, REST API, GraphQL, Azure, GCP, AWS, MySQL, SQLite, MongoDB, PostgreSQL, Redis, Firebase, Neo4j, ChromaDB, Supabase, TensorFlow, PyTorch, scikit-learn, Langchain, Langraph, LlamaIndex, Haystack, Snowflake, Autogen, CrewAI, Unsloth, Ollama

Work Experience

Ideabox AI (North Carolina, US)

March 2025 – July 2025

Backend Developer (Remote)

- Developed and productionized scalable backend APIs using FastAPI and integrated Langgraph agents for task automation. Collaborated with a distributed team to build an internal RAG tool supporting 1000+ documents specifically for invoices. Deployed agent observability using Langsmith

Incept AI (Coimbatore)

Feb 2024 – March 2025

Research Intern – AI Security Toolkit Development (Hybrid)

- Developed RAG-based enhancements to improve prompt handling in Security Copilot workflows. Designed proof-of-concept to detect prompt injection attacks in LLM-based development environments. Evaluated the performance of tool using metrics like BLEU, ROUGE, METEOR.

Binari Intelligence Systems Pvt. Ltd. (Salem)

Nov 2023 – Jan 2024

Software Development Intern (Hybrid)

- Designed a system to automate interview scheduling and skill assessments for candidates. Gained hands-on experience in collaborative version control using Git and Agile workflows.

Achievements

Web3Conf Hackathon 2024 Winner (Accessible AI)

Dec 2024

Runner Up in GenderXAI Hackathon (Femineh)

Jan 2025

NextGen Hack 2025 Winner

May 2025

Finalist in Google Agentic AI Hackathon

June 2025

Projects

Accessible AI | Flask, Google Cloud, React, Pinata, Stanford Parser

Dec 2024

- Engineered an innovative application for generating Indian Sign Language (ISL) videos from diverse media formats using Google Cloud Speech-to-Text for real-time transcription
- Implemented NLP for ISL syntax translation and MoviePy to compile animated videos with accurate sign representation for Hearing Impaired

Automated User Recognition Application (AURA) | Python, Deep Learning, RFID, Raspberry Pi, React Native

Apr 2025

- Engineered and deployed a scalable AI attendance system for my department, utilizing a deep learning pipeline (MTCNN, FaceNet-SVM) on a Raspberry Pi for dual-layer authentication with RFID and facial recognition to eliminate proxy attendance. Built a React Native dashboard to manage logs and generate reports, currently under continuous development.

VerifyIt - Chrome Extension | Flask, Google Custom Search API, Crawl4AI, and Gemini

Nov 2024

- Developed an adaptive search and Multi-layer content verification system, providing real-time credibility analysis
- Designed an intuitive, lightweight UI for seamless user experience without disrupting browsing flow

Deepfake Detection - Intel OneAPI Challenge | Huggingface, Intel OneDNN, Streamlit, Openvino

Mar 2024

- Designed and implemented a deepfake detection application using the ResNeXt-50 model, trained on the Celeb-DF (v2) dataset with 6,000+ samples, achieving 85% detection accuracy
- Optimized inference speed by 50% and reduced latency by 40% using Intel's oneDNN and OpenVINO toolkit for efficient AI processing on GPUs and CPUs

Femineh - Gender X AI Hack | FastAPI, React, Material UI, Langchain, MongoDB

Jan 2025

- Developed a full-stack RAG application for personalized diet plan recommendations and food component analysis for maternal care. Designed an automated pipeline capable of processing 500+ clinical data tables across ICMR Document, reducing response time by 30%

Courses and Certificates

- Microsoft — Azure AI-900 Fundamentals | [Certificate](#)
- Google — Foundation of Cybersecurity | [Certificate](#)
- MLOps and Full Stack Deep Learning | [Certificate](#)
- Neo4j Graph Data Science Certification | [Certificate](#)
- DevOps Foundation by CompTIA | [Certificate](#)