

Sai Aryan S

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PROFESSIONAL SUMMARY

Software engineer with strong programming fundamentals (OOP, data structures, algorithms) and hands-on experience building full-stack web applications in Python and JavaScript. Worked on ML model prototyping and embedded deployment, and familiar with containerization and CI pipelines.

KEY PROJECTS

AI Travel Planner Web App

Feb 2025 – Mar 2025

- Generated personalized AI itineraries in **7s average response time** using optimized Gemini API calls.
- Achieved **95+ Lighthouse performance score** and **100% mobile responsiveness** across major breakpoints with React + Tailwind + Material UI.
- Supported **50+ concurrent session-based users** with secure Express.js backend and efficient API caching.

CareerPilot — AI Resume Analyzer

Aug 2025 – Present

- Analyzed **100+ resumes** with AI-driven skill extraction and role-based match scoring in **10s per resume**.
- Reduced MongoDB query latency by **40%** through indexing and optimized schema design.
- Generated dynamic mock-interview questions and exported structured PDF feedback in **5s**.

ML Deployment on STM32 Microcontroller

Feb 2025 – May 2025

- Compressed TensorFlow model from **8MB → 320KB (96% reduction)** using quantized TFLite for edge deployment.
- Achieved real-time inference in **50ms** within **512KB RAM constraints** on STM32H7.
- Enabled **100% offline, low-power operation**, eliminating cloud dependency and reducing latency to near zero.

E-Commerce Website — End-to-End DevOps Cycle

Sep 2025

- Built Jenkins CI/CD pipeline that reduced deployment time from **15 min → 4 min**.
- Containerized full stack and implemented commit-SHA image versioning for **zero-downtime rolling updates**.
- Automated Cypress E2E testing with **80% critical flow coverage** and **2 min rollback strategy**.

EDUCATION

2022 – 2026 **B.Tech in Computer Science (CORE CSE)**, Woxsen University, India CGPA: 8.2/10

SKILLS

Core	Python, JavaScript, OOP, Data Structures & Algorithms, HTML, CSS, Node.js, Express.js, React.js
Databases	MySQL, MongoDB, REST APIs, JSON
ML / Embedded	TensorFlow, PyTorch, TFLite, STM32 deployment
Cloud & DevOps	Git, Docker, Jenkins, Minikube, AWS, Azure

RELEVANT COURSEWORK

Data Structures & Algorithms; Operating Systems; Database Management Systems; Computer Networks; Machine Learning; Embedded Systems

CERTIFICATIONS

- Data Mining Methods — University of Colorado Boulder
- Operating System Fundamentals — Akamai Technologies
- Generative AI for Everyone — DeepLearning.AI
- Mathematics for Machine Learning: Linear Algebra — Imperial College London
- Mathematics for Machine Learning: Multivariate Calculus — Imperial College London
- Database Management Essentials — University of Colorado System

ACHIEVEMENTS

- Class Representative — B.Tech CSE (CORE), 2023–2025
- Senior Executive — Utopia Esports Club, Woxsen University, 2024
- Placed Top 10 in an Inter-University Hackathon

INTERESTS & LANGUAGES

Interests	Web Development; Virtualization; Building & Customizing Computers; AI & Machine Learning; Cloud Computing (AWS, Azure, DevOps)
Languages	English; Hindi; Telugu