

# Sai Aryan S

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## PROFESSIONAL SUMMARY

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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

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### 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

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

## SKILLS

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

## RELEVANT COURSEWORK

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

## CERTIFICATIONS

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- 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

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- 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

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

Languages    English; Hindi; Telugu