

S JAYA PRADEEP

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LinkedIn | GitHub

Education

Vellore Institute of Technology, Bhopal

2023 – 2027

B.Tech, Computer Science & Engineering (AIML)

CGPA: 8.93 / 10 (Expected: June 2027)

– Relevant Courses: Data Structures, OOPs, OS, ML, CN, DBMS, AWS Cloud

Work Experience

AlgoUniversity (Y-Combinator backed)

May 2025 – Present

Software Development Intern

Remote

- Built **MyOJ**, a Django-based online judge, handling 800+ submissions weekly from 25+ users
- Reduced average code execution time to 1.9s using Docker-based sandboxing and Nginx caching layers
- Deployed full-stack system on AWS EC2 with HTTPS, handling 2,000+ monthly page views
- Hosted 5+ programming contests with automated scoring and real-time leaderboards
- Mentored by engineers from Google, Apple, ByteDance, Alphagrep

amasQIS.ai

Apr 2025 – Present

Intern – AI Engineer

Remote

- Boosted prediction accuracy by 17% by improving feature engineering and model tuning (YOLO)
- Helped develop front-end for PPE Compliance, improving user task efficiency by 20%.
- Collaborated with 4+ teams across ML Ops, frontend, and backend for end-to-end model deployment
- Developed and integrated back-end and AI models for Predictive Maintenance, raising PPE detection accuracy to 92%.

TCS Recruitment Drive, VIT Bhopal

Dec 2024 – Jan 2025

Campus Volunteer

VIT Bhopal

- Managed logistics for 600+ students during campus drive; enabled 3x faster check-in process
- Interfaced with 10+ recruiters, aligning pre-placement talks with student interests

Projects

AI-Powered Mentor-Mentee Platform

Source Code

- Matched 150+ students using ML-powered profile matching; improved retention rate by 32%

Heart Disease Detection (ML)

Source Code

- Achieved 95+% test accuracy using random forest and other models

Hand Sign Translation System (ML + CV)

Source Code

- Built CNN-based gesture recognition model with 95%+ precision; enabled real-time translation at 24 FPS

Technical Skills

Languages: Python, Java, C++

Frameworks: Django, TensorFlow, PyTorch

Web: HTML, CSS, Bootstrap, TailwindCSS, Socket.IO

Database/Cloud: AWS, PostgreSQL, MongoDB

Tools: Docker, Git, Linux

Awards & Achievements

- Top 1.4% among 40,000 in **AlgoUniversity Accelerator Camp**; completed system design and backend optimization track under mentorship from Google, Apple, Alphagrep engineers
- Among top 120 from 80,000 in **Graphs Camp**; solved 17+ advanced graph problems (DP, DFS trees, bridges)
- Solved 150+ DSA problems across Codeforces, Leetcode, and GFG
- Top finalist – **G. Viswanathan Hackathon**; Finalist - **Smart India Hackathon** (Internal Round)