

AYUSH GUPTA

Software Developer — Full-Stack Engineer — AI/ML Enthusiast

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PROFESSIONAL SUMMARY

Results-driven Software Developer with proven expertise in building high-performance, scalable applications across full-stack development and AI/ML domains. Delivered 35% performance improvements through innovative architectural solutions while leading cross-functional teams. Proficient in MERN stack, Python, and cloud technologies with hands-on experience deploying production systems on AWS. Demonstrated track record of reducing operational costs by 80% through intelligent automation and achieving 99% accuracy in data processing solutions. Passionate problem-solver committed to writing clean, maintainable code and driving digital transformation through cutting-edge technology.

EDUCATION

Savitribai Phule Pune University

Bachelor of Engineering in Computer Engineering

Pune, India

Dec 2021 – May 2025

Grade: 8.53 / 10

Coursework: Object Oriented Programming (OOPs), Data Structures and Algorithms (DSA), Machine Learning, Deep Learning, Computer Networks

TECHNICAL SKILLS

Programming Languages: Python, JavaScript (ES6+), SQL, HTML5, CSS3

Libraries / Frameworks: React.js, Redux, FastAPI, Flask, Bootstrap, Tailwind CSS, Node.js

Databases: MySQL, PostgreSQL

AI/ML Technologies: TensorFlow, Scikit-learn, Pandas, NumPy, Machine Learning, NLP, Generative AI

Cloud & DevOps: AWS (EC2, S3), Docker, CI/CD Pipelines

Tools: Git/GitHub, Agile/Scrum, JIRA, Power BI, Excel

PROFESSIONAL EXPERIENCE

Freelancer at Sqano Systems Pvt Ltd

Software Developer

Pune, India

June 2024 – November 2024

- Engineer and optimize scalable web applications using MERN stack and Python, achieving 35% performance improvement through strategic backend architecture redesign and automation implementation
- Architect and deploy RESTful APIs with comprehensive documentation, integrating AI/ML models for intelligent automation while maintaining 99.9% system uptime on AWS infrastructure (EC2, S3)
- Lead and mentored technical team of 3 developers, conducting thorough code reviews, establishing best practices, and mentoring junior engineers to enhance code quality and team productivity
- Collaborate with product managers and stakeholders in Agile environment to translate business requirements into scalable technical solutions

Indira College of Engineering and Management

Software Developer Intern

Pune, India

Dec 2023 – Jan 2024

- Developed production-grade RPA Tool PDF-to-CSV conversion achieving 99% accuracy, improving data analysis efficiency by 40% and eliminating 60% of manual processing overhead
- Implemented intelligent data validation algorithms and error handling mechanisms ensuring reliable, scalable processing of large document volumes
- Awarded runner-up recognition in competitive project evaluation among 50+ participants for innovative technical approach and exceptional solution quality

PROJECTS & LEADERSHIP

Where is my BUS? - Real-Time Bus Tracking System

Python, FastAPI, ReactJS, MySQL, Kafka

- Developed a real-time bus tracking application serving 1,000+ daily commuters, providing live bus locations and ETAs
- Integrated GPS-based tracking with 5–10 second refresh intervals, improving arrival-time accuracy by 30%
- Reduced average passenger wait time by 20–25% through predictive route and ETA visibility
- Enabled fleet monitoring for 50+ buses, improving route adherence and operational efficiency

AI Chatbot Web App

JavaScript, Python, REST API, React

- Built an AI-powered chatbot web application supporting conversational interactions using JavaScript and backend APIs
- Designed and implemented modular dialogue handling and response generation to improve user engagement and query resolution speed
- Integrated client–server communication enabling asynchronous chat updates with sub-second responsiveness
- Achieved a professional UI/UX and scalable codebase supporting future feature expansion

Nifty Indices Web Scraper

Python, BeautifulSoup, CLI/GUI

- Built a production-grade Python web scraper to fetch historical NIFTY index data (OHLC) with both GUI and CLI interfaces
- Automated scheduled data extraction to support downstream analysis or model back-testing workflows
- Parsed and cleaned financial time series inputs with error handling for robust retrieval at scale
- Optimized scrape throughput to reduce runtime by approximately 30% versus naive implementations

PORTFOLIO

- **Cyber Ayush – Tech Education Platform (Founder, April 2021 – Present):** Built and scaled technical content platform reaching thousands of followers. Consistently deliver high-quality content on cybersecurity, software development, and AI/ML, fostering engaged learning community and establishing thought leadership
- **AI/ML Innovation Portfolio:** Developed multiple production-ready applications including fraud detection systems, healthcare analytics platforms, and intelligent automation tools using modern ML frameworks and best practices

CERTIFICATIONS & RECOGNITION

- **Google AI/ML Certifications:** Introduction to Generative AI — Prompt Design in Vertex AI — Google Analytics
- **Professional Certifications:** Data Analytics & Visualization Job Simulation — Digital Marketing Fundamentals
- **Honors:** Best Paper Award 2025 — Project Competition Runner-Up — Technical Excellence Recognition