

Aman Singh

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About Me

Software Developer with strong foundations in Java, data structures, and backend systems, experienced in building scalable applications and ML-driven solutions. Passionate about accessibility-focused products, clean architecture, and delivering reliable software in Agile environments.

Education

B.E., Computer Engineering <i>Indira College of Engineering and Management (SPPU)</i>	2023 – Present
<ul style="list-style-type: none">GPA: 9.19/10Coursework: DSA, DBMS, Operating System, Computer Networks, Software Project Management	
Higher Secondary Certificate <i>PDEA's Shri Mhalsakant Junior College</i>	2023
<ul style="list-style-type: none">Percentage: 66.33%	
Secondary School Certificate <i>CMS English Medium School</i>	2021
<ul style="list-style-type: none">Percentage: 83.60%	

Experience

CODEALPHA – Java Intern	Jan 2026 Pune, India
<ul style="list-style-type: none">Designed and developed core Java applications including a Hotel Reservation System and Stock Trading Platform, simulating real-world business workflows.Applied object-oriented programming principles (encapsulation, inheritance, polymorphism) to build modular, scalable, and maintainable systems.Implemented robust validation and exception handling to ensure data integrity, fault tolerance, and reliable system behavior.	
codeXslinger – Machine Learning Intern	Apr 2025 – Jun 2025 Pune, India
<ul style="list-style-type: none">Developed and optimized a CNN-based plant disease detection model achieving 90%+ accuracy.Led Agile sprint cycles and coordinated tasks across a 4-member team.Designed and implemented a soil monitoring and automated recommendation pipeline.Collaborated with stakeholders to refine use-cases and prioritize feature roadmap.	

Projects

NETRA – Accessible Coding Platform for Visually Impaired Developers	In Progress
<ul style="list-style-type: none">Designing and developing an accessibility-first coding platform with voice-based interaction and keyboard-only navigation.Implemented speech-to-text coding input and text-to-speech feedback.Building a sandboxed backend service for secure code compilation and execution.Ensuring compliance with WCAG guidelines for screen-reader compatibility.	
SAARTHI – Soil Crop Recommendation	Jun 2025
<ul style="list-style-type: none">Engineered a CNN-based crop prediction model achieving 90%+ accuracy.Automated preprocessing pipeline reducing manual processing time by 60%.Tools: Python, TensorFlow, Keras, Pandas	
SAHAYAK – Paperless Scholarship Distribution	Aug 2024
<ul style="list-style-type: none">Spearheaded development of a digital platform enabling paperless scholarship processing.Integrated Redis, Stripe, and automated approval flows.Applied Agile PM practices for sprint planning and deployment.Tools: MongoDB, JavaScript, HTML, CSS, Redis, Stripe	

Skills

Technical: C++, Java, Python, MySQL, JavaScript, MongoDB, HTML, CSS, Django, Flask
Machine Learning: TensorFlow, Keras, Scikit-learn, Pandas
Tools & Platforms: JIRA, VS Code, Git/GitHub, Jupyter Notebook
Management: Agile, Scrum, SDLC, Risk Analysis, Stakeholder Management
Soft Skills: Leadership, Adaptability, Teamwork, Persuasion

Achievements

- Received a **Letter of Recommendation** from **CODEALPHA** for outstanding performance during the Java internship.
- Received a **Letter of Recommendation** from **codeXslinger** for contributions to machine learning project delivery.
- Ranked as 4th Semester **Department Top Performer** based on academic excellence.
- Secured **1st Runner-up** position at **GDG Ideathon 2025** for product innovation.
- Completed **Foundations of Project Management** certification by **Google**.

Languages

English Hindi Marathi

Hobbies

Writing Blogs Cycling Guitar