

# Ayush Kumar

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## SUMMARY

Computer Science undergraduate (B.Tech CSE, **CGPA: 9.16**) building full-stack **MERN** and AI-driven applications. Projects include CNN-based plant disease detection (~92% test accuracy) and a GenAI-assisted finance tool processing 1000+ transactions, deployed with cloud, containers, and CI/CD.

## EDUCATION

<b>KIIT University</b> <i>Bachelor of Technology in Computer Science — CGPA: 9.16/10</i>	Expected May 2027
• Awarded <b>KIITEE Merit Scholarship</b> for securing All India Rank #163	
<b>Shivam Convent</b> <i>CBSE Class XII — Aggregate: 88.6%</i>	2022
<b>Open Minds A Birla School</b> <i>CBSE Class X — Aggregate: 96.4%</i>	2020

## TECHNICAL SKILLS

- **Programming:** JavaScript (ES6+), Python, C++, Java
- **Web & Backend:** React, Node.js, Express.js, REST APIs, MongoDB, HTML, CSS
- **AI/ML:** CNNs, Computer Vision, Generative AI (LLM chatbots), classical machine learning
- **Cloud & DevOps:** Oracle Cloud (OCI), Docker, Kubernetes, CI/CD pipelines
- **Tools:** Git, GitHub, VS Code
- **Certifications:** OCI 2025 DevOps Professional; OCI 2025 Generative AI Professional

## PROJECTS

<b>Cash-Compass</b>   <i>MERN, Python, GenAI, ML</i>   <a href="#">GitHub</a>	Dec 2025 – Present
• Built a personal finance platform to track <b>1000+ transactions</b> , define savings goals, and send real-time budget alerts in a MERN-based dashboard	
• Added JWT auth, bulk CSV import, analytics dashboards, and a Python-based <b>GenAI assistant</b> that summarizes spending and suggests optimizations	
<b>Vriddhi</b>   <i>MERN, Node.js, MongoDB, ML, CV</i>   <a href="#">GitHub</a>	Jan 2026 – Present
• Built an agricultural assistance platform with <b>MERN</b> for disease detection and advisory flows for crop health	
• Trained and integrated a <b>CNN</b> on leaf images, achieving ~92% test accuracy and serving predictions via a web API	
<b>Layered</b>   <i>FastAPI, React, TypeScript, MongoDB, Graph Analysis</i>   <a href="#">GitHub</a>   <a href="#">Live</a>	Feb 2026 – Present
• Built an <b>architecture drift detection platform</b> that analyzes codebases to infer layers and detect dependency violations over time	
• Implemented immutable architectural snapshots, interactive dependency graphs, and AI-assisted explanations for violations	
<b>FailSense</b>   <i>Next.js, Groq Llama 3.3, AI</i>   <a href="#">GitHub</a>   <a href="#">Live</a>	Jan 2026 – Present
• Built an <b>AI-powered debugging assistant</b> that analyzes error logs and generates ranked fix suggestions	
• Added search, tagging, historical analysis tracking, and exportable reports to improve debugging workflows	

## EXPERIENCE

<b>Drone Development Project – Team Lead</b> <i>Open Minds A Birla School</i>	Sep 2020 – May 2021 Patna, India
• Led a team of 4 to design, assemble, and program a quadcopter using microcontrollers, brushless motors, and IMU sensors	
• Achieved ~95% functional reliability in test flights and secured <b>1st place</b> among 15+ teams in the school science fair	

## ACHIEVEMENTS

- Finalist at **Mumbai Hacks 2025** (national-level hackathon) for an AI-driven application built in 36 hours
- **KIITEE Merit Scholar** (All India Rank #163) awarded by KIIT University
- **1st Place** in school science fair for drone development project (15+ teams)