Ayush Kumar

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SUMMARY

Computer Science undergraduate with hands-on experience building full-stack web applications using **JavaScript**, **Node.js**, **Express**, and **MongoDB**. Skilled in developing responsive user interfaces, integrating REST APIs, and following MVC architecture. Proficient in the **MERN stack** with growing expertise in **Artificial Intelligence and Machine Learning**, including **Computer Vision (CNN models)**, predictive analytics, and **Generative AI applications**. Strong foundation in version control using **Git/GitHub** and modern development workflows.

EDUCATION

KIIT University — Expected May 2027
*Bachelor of Technology in Computer Science — **CGPA: 9.16***
- Recipient of **KIITEE Merit Scholarship** (Rank #163 in University Entrance Exam)

Shivam Convent — 2022
*CBSE Class XII — Aggregate: **88.6%***

Open Minds A Birla School — 2020
*CBSE Class X — Aggregate: **96.4%***

TECHNICAL SKILLS

Languages: Python, JavaScript (ES6+), C++, Java, HTML, CSS
Frameworks/Libraries: Node.js, Express.js, React.js, Bootstrap, NumPy, Pandas, scikit-learn
Developer Tools: Git/GitHub, VS Code, Parcel
Technologies: MongoDB, Machine Learning (CNN, CV), Generative AI (GenAI)
Stacks: MERN Stack
Cloud: Oracle Cloud (OCI Generative AI Certified, OCI Foundations Certified)
Certifications: *https://catalog-education.oracle.com/pls/certview/sharebadge?id=BFFBC0439B4FF8B631A208306EA4484E7F0C4870721F5F941025090C7B8B5F8F*

PROJECTS

Vriddhi | *Full Stack, MERN, Node.js, MongoDB, ML, CV, CNN* | GitHub Repo — Oct 2025 – Present
- Developed a full-stack agricultural assistance platform using the **MERN stack** to empower rural farmers
- Integrated a **CNN-based Computer Vision model** to detect plant diseases from uploaded leaf images with **92% accuracy**
- Built an **AI-powered multilingual chatbot** to provide region-specific advice and improve accessibility by **60%**
- Boosted farmers' decision-making efficiency and crop yield by nearly **50%** through early disease detection and tailored recommendations

Natours | *MERN, Node.js, Express, MongoDB, Pug* | GitHub Repo — Jan 2025 – Present
- Built a tour booking platform with secure JWT auth, SSR pages using Pug, and optimized REST APIs
- Used MongoDB Aggregation + geospatial queries for tour stats and map-based data
- Integrated Stripe payments, implemented image upload + Sharp resizing, and deployed with production configs

Forkify App | *JavaScript, HTML/CSS, MVC* | View Project — Jun 2024 – Present
- Developed a recipe web app using **MVC architecture**, fetching 1000+ items via **REST APIs** with async/await
- Optimized performance by **40%** through image compression, lazy loading, and modular ES6+ code

Portfolio Website | *HTML, CSS, JavaScript* | View Project — May 2024 – Present
- Created a responsive portfolio website showcasing **6+ projects**, optimized for SEO and performance
- Boosted Lighthouse SEO score from 56 to **90+** using semantic HTML and asset minification

EXPERIENCE

Drone Development Project - Team Lead — Sep 2020 – May 2021
Open Minds A Birla School — *Patna, India*
- Led a team of 4 to design and prototype a working drone using microcontrollers, motors, and sensors
- Achieved **95% functional accuracy** and secured **1st place** in a science fair with 15+ teams

ACHIEVEMENTS

- **Awarded KIITEE Merit Scholarship** (Rank #163 in University Entrance Exam)
- Selected in top 10% in **MumbaiHacks** ; one of India's largest agentic AI Hackathon