

Ayush Katre

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Summary

Full Stack Developer and AI/ML Enthusiast with national-level impact. Finalist at Smart India Hackathon 2024 (**Top 5/49,000+ teams**) and winner/finalist at **8+ hackathons** including Technovation, Odoo, Codement and ConsultAdd. Proficient in **full-stack development, API integrations, and building scalable GenAI solutions**.

Technical Skills

Programming Languages: Python, C++, JavaScript, TypeScript, Java, Go

Development: Node.js, Express.js, Flask, FastAPI, RESTful APIs, WebSocket, Mobile and Web Development

Database & Tools: MongoDB, MySQL, PostgreSQL, Git, GitHub, Postman, Docker, Render, Vercel, Pinecone, AWS(EC2)

ML & Data Science: Numpy, Pandas, Matplotlib, Seaborn, Supervised Learning, TensorFlow, PyTorch, Scikit-learn, OpenCV, YOLO

GenAI: Fine-Tuning, RAG, Prompt Engineering, Langchain, Faiss, ChromaDB, HuggingFace

Core Concepts: Data Structures and Algorithms, Machine Learning, Object Oriented Programming, Backend Development, Data Science, DBMS, API Development, Web Scraping, Version Control, GenAI

Soft Skills: Leadership & Team Collaboration, Effective Communication & Presentation, Problem-Solving, Decision-Making

Experiences

Full Stack Developer Intern

August 2024–September 2024

YatriCabs

- Enhanced platform usability by developing responsive user interfaces, leading to a **30% increase** in user engagement and reduced bounce rates.
- Optimized backend performance by building scalable APIs using Node.js and Express.js, resulting in a **40% faster** data processing speed and seamless integration of Google Maps API for real-time tracking and route optimization.
- Implemented **CI/CD pipelines** using Git for version control, automating deployment processes and reducing integration issues by 70%.

Projects

Funky Cursor(NPM Package) [GitHub \(Source Code\)](#) | [Live Demo](#)

- Developed and published the NPM funky-cursor package, enabling **customizable, lightweight cursor trail** effects with seamless integration into modern frameworks like React and Next.js.
- Optimized performance to ensure smooth rendering with **minimal impact** on website performance, **reducing load times by 15%** in test environments.
- Streamlined developer onboarding by providing comprehensive documentation, examples, and configurable options, increasing **adoption by developers** using frameworks like React and Next.js.

Swachha Vision - Smart India Hackathon 2024 Grand Finale [GitHub \(Source Code\)](#) | [Live Demo](#)

- Created a scalable dashboard for Swachhta and LiFE, enabling real-time tracking of cleanliness across **165,000+ post offices**.
- Designed an AI-powered image processing system, improving waste detection accuracy by 85%, and implemented data analytics pipelines, reducing analysis time by **40%**.
- Developed a robust backend using Node.js and Flask, enhancing system **performance and scalability by 50%**
- Yolov8, Node.js, Next.js, GoogleAuth, Flask, Opencv, Arduino, Webcam (esp-32)**

Education

Dr. D. Y. Patil Institute of Technology Pimpri

November 2022 – 2026

Savitribai Phule Pune University

Pune, Maharashtra

SGPA – 8.9/10

Awards & Achievements

- Smart India Hackathon 2024 Finalist:** Led a team to create a Swachhata Monitoring Dashboard for the Department of Post(Top 5 among 49,000+ teams)
- 8x Hackathon Winner/Finalist** – Including 2nd Prize at *TechnoVation* (DSAIL Club), special recognition at *Consultadd Hackathon*, and finalist at *Codement*, Odoo Hackathon, other national-level hackathons.
- Qualified GATE 2025** : Data Science and Artificial Intelligence with AIR 5K in first Attempt.
- Speaker & Communicator** – Conducted a session on **Generative AI** for **100+ peers** and secured 2nd Runner-up in a debate competition, both under S4DS Club initiatives.
- Certifications** – **Data Science Skillpath (Udemy, 2024)**, **Postman API Fundamentals Student Expert (Postman, 2024)**, **Web Development Masterclass (Udemy, 2024)**