Nileet Savale

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Professional Summary

Adaptive and innovative Computer Science graduate student at Indiana University, experienced in AI/ML, cloud development, and scalable software engineering. Currently developing an AI-powered flashcard app that transforms lecture notes into interactive study tools with auto-generated quizzes. Serving as a Teaching Assistant for Elements of Artificial Intelligence (EAI), with growing expertise in intelligent systems, distributed computing, and secure cloud infrastructure.

Technologies

Languages: Python, Java, C++, JavaScript, TypeScript, Solidity, HTML
Frameworks & Libraries: React.js, Node.js, TensorFlow, PyTorch, NumPy, Pandas, Scikit-learn, NLTK, OpenCV
Databases: SQL, MySQL, MongoDB
Tools & Platforms: Git, GitHub, Jupyter Notebook, Figma, Adobe Creative Suite, CMS, Visual Studio, Linux, Agile, Docker
Concepts: Machine Learning, Deep Learning, Data Science, Software Engineering, OOP, DSA, NLP, Computer Vision, Testing, Algorithm Design, Troubleshooting, Customer Service

Projects

API for Cross-Team Collaboration — Luddy Hackathon 2024
- Developed a RESTful API to help employees locate team members based on 100+ product or repo associations, improving inter-departmental collaboration by 35%.
- Ensured scalability with indexed queries and modular endpoints capable of handling 10K+ requests/day.

IoT-Powered Smart Dustbin — Oct 2024
- Engineered an IoT-based waste management system with real-time monitoring, reducing overflow incidents by 60% in pilot trials.
- Integrated cloud analytics predicting bin fill rates with 87% accuracy, optimizing collection scheduling and saving 20% fuel cost.

Smart Ration Distribution System with Blockchain — July 2023
- Built an Ethereum-based smart contract system that automated ration distribution for 1,500+ users, ensuring tamper-proof logging and verification.
- Integrated RFID and IoT-based sensors to verify real-time disbursement, reducing fraud complaints by 80%.

FlashCard AI App — Github
- Creating an AI-driven mobile app to convert lecture PDFs or typed notes into flashcards; planning on being used by 200+ students across 3 universities.
- Implementing automatic quiz mode, spaced repetition algorithm, and integrated Firebase Auth and Firestore for real-time sync and login.

LangViz: Language-Agnostic Visualization Tool — Github
- Built a secure visualization web platform to run Python and R code inside isolated Docker containers, supporting 10+ visualization types.
- Enabled AI-assisted graph generation from natural prompts, dynamic HTML preview rendering, and PostgreSQL-backed history saving.

Education

Indiana University — Indiana, USA
Master of Science in Computer Science — August 2024 - July 2026

Savitribai Phule Pune University — Maharashtra, India
Computer Science Bachelor - CGPA: 8.9 — July 2020 - July 2024

Publications

Transforming Household Waste Management: IoT-Enabled Smart Dustbin — IEEE – Oct 2024

Experience

Web Developer Intern, SearchIn – Maharashtra, India — March 2023 – June 2023
- Designed and tested **3 web applications** across **5 platforms**, resulting in a **25%** increase in user engagement.
- Enhanced existing applications, improving efficiency by **30%** and reducing bugs by **40%**.

Web Developer Intern, Atul Ltd – Gujarat, India — Jan 2022 – April 2022
- Developed an admin portal for a chemical company managing **75 industries**, facilitating collaboration among **5,000+ employees**.
- Implemented real-time data integration with live server technology, cutting data retrieval time by **40%**.

Project Management Intern, Wipro PARI Ltd – Maharashtra, India — Nov 2023 – April 2024
- Mentored by 5 senior project managers across 60+ hours, boosting professional and project coordination skills by 30%.
- Contributed to FAT3 testing for 3 major projects, achieving a 15% reduction in testing time and a 20% improvement in validation processes.

Teaching Assistant – Elements of Artificial Intelligence (EAI), Indiana University — Aug 2024 – Present
- Supported Prof. Saul Antonio Blanco Rodriguez in teaching and managing a 80+ student class.
- Conducted office hours, graded assignments, and guided interactive sessions.
- Integrated real-world AI applications into discussions, boosting student engagement.