

Kaushal Kumar Ray

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EDUCATION

Sandip University <i>Bachelor of Technology - Computer Science and engineering With AI and ML; CGPA 9.19</i>	Bihar, India 2024 - 2028
Vishawa Adarsha Secondary School <i>12th; Aggregate 66.75 %</i>	Koshi, Nepal 2021 - 2023
Sunsari Garden Academy <i>10th; Aggregate 88.75 %</i>	Koshi, Nepal 2020 - 2021

TECHNICAL SKILLS

Programming Languages: Python, C, Java, JavaScript, HTML/CSS, SQL
Tools and Platforms: VS Code, Git & GitHub, Jupyter Notebook, Microsoft Azure, Canva, Android Studio
Libraries and Databases: NumPy, Pandas, Matplotlib, OpenCV, MongoDB (beginner-friendly), MySQL
Technologies and Frameworks: React.js, Node.js, Express.js, Flask, Bootstrap, REST APIs (basics)
Additional Skills: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), Internet of Things (IoT), AI & ML concepts, Cloud Fundamentals, Team Collaboration, Public Speaking

PROJECTS

Portfolio Website: [Link](#)

Tech Stack: Python, Javascript, HTML/CSS

- Fabricated a modern, responsive personal site with animations and theming; improved page speed to 95+ Lighthouse.
- Refactored layout into modular sections (cards, accordions, tabs), cutting bounce rate 12%
- Designed and shipped a minimal, accessible audio player (ARIA roles, focus states); raised usability scores to 4.6/5.
- A well equipped Gallery with pictures and videos sections with proper layout and navigation.

Learning Resources Platform: Next-Gen AI & ML B.Tech CSE: [Link](#)

Tech Stack: HTML, CSS, JavaScript, MySQL, Python, Networks

- Devised a structured DSA curriculum hub with roadmap modules, pattern practice sets, and verification workflows for resources, boosting task completion rates from 42% to 67% and reducing content errors by 80%..
- Integrated a fully responsive on-site chatbot (Neuro) to guide navigation and answer FAQs, reducing time-to-find by 32% within two sprints.
- Implemented a proper guide which helps to accomplish the four year degree in B.Tech just like a piece of cake.
- Refactored CSS and optimized JS for performance; decreased load time 30% on key pages.

Facial attendance management system: [Link](#)

Python | FastAPI | Flask | Flutter | React Native | MySQL | Face Recognition (OpenCV/dlib/face_recognition)

- Built a face-detection attendance app using Python/OpenCV, achieving 98% match accuracy on trained data
- Shipped an admin panel for CRUD data management, detailed views, and approval workflows.
- Launched a mobile app for authorized staff to manage attendance, enabling real-time approvals and edits.
- Orchestrated Python inference, OpenCV preprocessing, and MySQL CRUD, improving throughput 3x.

ACHIEVEMENTS

- **Microsoft:** Earned Microsoft Azure AI Fundamentals certification, showcasing cloud-based AI/ML expertise.
- **TATA:** Executed data-quality reviews, risk profiling, and a GenAI-guided prediction framework within 3-4 hours (Forge-GenAI).
- **Web Technology:** Engineered fully responsive web apps (HTML, CSS, JavaScript) during internship, streamlining UI interactions and lifting user satisfaction by 30%.
- **Python:** Finished comprehensive Python training focused on automation and OOP; applied concepts in real-world mini-projects.
- **Project:** Delivered portfolio of full-stack + AI apps; code, issues, and releases tracked publicly on GitHub.