

Sourabh Pandey

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💻 leetcode.com/18.firefox (116 problems) 🏆 hackerrank.com/Sourabh153141

PROFILE SUMMARY

B.Tech Computer Science (AI & ML) student with hands-on experience in web development and a growing foundation in Python, DSA, and computer vision. Built and deployed full-stack web applications and implemented real-time object detection using OpenCV. Actively solving algorithmic problems on LeetCode and seeking opportunities to apply technical skills in a professional AI/ML or software development environment.

EDUCATION

Allenhouse Institute of Technology Kanpur, Uttar Pradesh
B.Tech in Computer Science Engineering (AI & ML) 2023 – Expected 2027

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Machine Learning Fundamentals

INTERNSHIP

Web Development Intern Remote
Oasis Infobyte Oct 2024 – Nov 2024

- Developed three responsive web projects from scratch using HTML, CSS, and JavaScript as part of a structured internship programme.
- Built interactive UI components including dynamic forms, navigation menus, and real-time DOM manipulation, improving front-end development proficiency.
- Optimised page load performance and ensured cross-browser compatibility across all three delivered projects.
- Successfully completed the internship and received an official completion certificate from Oasis Infobyte.

PROJECTS

Real-Time Object Detection System | *Python, OpenCV* Jan 2025 – Apr 2025

- Built a real-time object detection application using OpenCV and Python that detects and labels faces and human bodies in real time using Haar Cascade classifiers through a live webcam feed.
- Implemented frame-by-frame processing pipeline with bounding box rendering and class-label overlays, achieving smooth real-time inference.
- Demonstrated understanding of computer vision concepts including Haar Cascade XML classifier files, grayscale conversion, and scalable detection windows for accurate multi-face and body tracking.

AI-Powered Music Recommendation Web App | *HTML, CSS, JavaScript, Music API* Aug 2025 – Dec 2025

- Developed a front-end music recommendation web application that suggests tracks based on user-selected mood and genre preferences via a third-party music API.
- Designed and implemented a clean, responsive front-end interface with dynamic content rendering using vanilla JavaScript.
- Deployed the application on GitHub Pages, making it publicly accessible with zero hosting cost.

Railway Ticket Booking System | *HTML, CSS, JavaScript* Oct 2024 – Feb 2025

- Designed and built a browser-based ticket reservation platform featuring real-time seat availability display and a secure mock login flow.
- Implemented client-side form validation and dynamic seat-grid UI to enhance user experience and reduce booking errors.

TECHNICAL SKILLS

- Programming Languages:** Python (Intermediate), C (Intermediate), Java (Basic)
- Web Development:** HTML5, CSS3, JavaScript
- Computer Vision:** OpenCV, real-time webcam processing
- AI/ML (Familiar):** NumPy, Pandas, scikit-learn (coursework level)
- Core CS Concepts:** Data Structures & Algorithms, OOP, Operating Systems, DBMS, Computer Networks
- Developer Tools:** VS Code, Git, GitHub, GitHub Pages
- Competitive Programming:** LeetCode (116+ problems), HackerRank

CERTIFICATIONS

- Data Science: Mastering the Fundamentals — **Scaler** *Sep 2025*
- Cybersecurity Foundation — **LinkedIn Learning** *Nov 2024*
- Generative AI — **LinkedIn Learning** *Nov 2024*
- DSA Training — **Allenhouse Institute of Technology** *Sep 2024 – Mar 2025*

WORKSHOPS & EVENTS

- **AKTU AI Tech Confluence 2025** — Full Stack Web Development workshop organised by HCL & GUVI.
- **IIT Kanpur Samanvay 2025** — National-level event on AI, Sustainability, and Cybersecurity featuring industry researchers and leaders.
- **HCL Lucknow Industrial Visit (March 2026)** — Technical session on AI & ML applications in enterprise software; gained exposure to real-world deployment practices at scale.