

# ADITYA RAJ PANDEY

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## OBJECTIVE

Pre-final year AI/ML engineering student with strong problem-solving skills (400+ DSA problems, Leetcode rating 1540) and hands-on experience building AI-driven, full-stack applications using Fast-API, React, and modern web technologies. Skilled in designing scalable backend systems, developing ML-powered solutions, and delivering production-ready applications. Seeking a Software Engineer role to build efficient, high-impact systems and contribute to real-world, scalable products.

## EDUCATION

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B. Tech in Artificial Intelligence & Machine Learning	2023 – 2027
<i>Pranveer Singh Institute of Technology, Kanpur – CGPA: 7.94 (up to Semester 5)</i>	
Class XII – Oxford Model Senior Secondary School, Kanpur	2022
Score: 73.4%	
Class X – Oxford Model Senior Secondary School, Kanpur	2020
Score: 92.2%	

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## TECHNICAL SKILLS

- **Languages:** Python, C, SQL
- **Core Subjects:** DBMS, Operating Systems, Data Structures & Algorithms (DSA)
- **Web Technologies:** HTML, CSS, JavaScript, React, Node.js
- **Frameworks & Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, FastAPI
- **Databases & Cloud:** MongoDB, Firebase, Stripe, Pinecone
- **Tools & Platforms:** VS Code, GitHub, MS Excel, MS Word, Google Colab, Jupyter Notebook, Vercel, Render, Railway

## PROJECTS

**Complexity-Labs – AI-Powered Code Editor & Complexity Analyzer** | Tech Stack: HTML, CSS, JavaScript, FastAPI, Scikit-Learn [Live Link](#)

- Trained and evaluated machine learning models (Random Forest, Regression) on a self-curated dataset of 250+ samples, achieving 97.7% accuracy across multiple trained models through effective data preprocessing and model optimization.
- Developed a web-based code editor using HTML, CSS, and JavaScript, integrated with a Python backend. Designed and deployed RESTful APIs using FastAPI to enable efficient backend communication and real-time processing from ML model.

**Tech Learn-Hub – Ed-Tech Platform for B. Tech Students** | Tech Stack: HTML, CSS, JavaScript, Node.js, React

- Designed a **student-centric full-stack platform** providing unified access to study materials, quizzes, DSA visualizations, and academic resources for B. Tech students.
- **v1.0:** Built core features including **curated learning playlists, code visualizer, and quiz module** using HTML, CSS, JavaScript, and Node.js; implemented modular **frontend-backend architecture**. [Live Link](#)
- **v2.0:** Integrated **AI-driven notes generation system** using React and implemented **Stripe payment gateway** to enable subscription-based **SaaS functionality** and personalized learning experiences. [Live Link](#)
- **v3.0:** Designed and deployed a modular **AI-powered quiz engine** with MCQ-based practice for placement preparation. [Live Link](#)

**PRISM – Person Retrieval using Image Similarity Matching** | Tech Stack: Python, PyTorch, OpenCV, HTML, CSS, JavaScript [Live Link](#)

- Developed an AI-powered missing person identification platform using Machine learning image similarity and classification.
  - Built a responsive HTML/CSS/JS frontend supporting real-time image upload, prediction, and results display.
  - Implemented a unique ID tracking system (#ID) for each uploaded record, ensuring secure and persistent storage until case resolution.
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## CERTIFICATES

- **ORACLE:** AI Foundations Associate
- **Infosys:** Introduction to Machine Learning.

## EXTRACURRICULAR ACTIVITIES, ACHIEVEMENTS & EXPERIENCES

- Served as Vice President of the Photography Club, managed and executed 10+ events including **IGNITIA 2K25**.
  - Solved 400+ Data Structures & Algorithms problems on Leetcode with a **contest rating of 1540 (Top ~34%)**.
  - Currently serving as Senior Advisor at Ingenious Club, PSIT Mentoring members and guiding leadership skills.
  - Campus Ambassador Techkriti'26 IIT Kanpur.
  - Semi-Finalist at **Empresario 2025**, a national entrepreneurship competition organized by **IIT Kharagpur**.
  - Participated in **NASA Space Apps Challenge** in both 2024 and 2025, developing solutions to real-world space problems.
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## SOFT SKILLS

- Analytical Thinking • Problem Solving • Teamwork • Communication • Adaptability