

Nakul Jain

+91-8279705896 | nakuljain1102@gmail.com | linkedin.com/in/nakuljain | github.com/nakuljain2011 | [leetcode/nakuljain](https://leetcode.com/nakuljain)

EDUCATION

Noida Institute of Engineering and Technology

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence)

• CGPA:7.82

Greater Noida, UP

Nov. 22 – Present

EXPERIENCE

Intern at SKILL INTERN INDIA

Virtual

- * **Developed an automated color detection system** utilizing Python and OpenCV to examine images and identify their predominant colors.
- * **Created an interactive user interface** enabling users to upload images and receive immediate color analysis, featuring both RGB and HEX values.
- * Enhanced the system's **accuracy and efficiency** by employing **K-means clustering and color quantization** methods to improve color recognition in intricate images.

Intern at PW SKILLS

Virtual

- * **Created a web-based Blood Bank Management System** utilizing HTML, CSS, and Django, which facilitates the effective management of blood donations, inventory, and requests from recipients.
- * **Developed a secure and intuitive interface** for donors, recipients, and administrators, allowing them to register, request blood, and monitor donation history effortlessly.
- * Established a **strong backend with Django and a PostgreSQL database** to manage real-time updates on blood availability.

PROJECTS

AI-Assisted Medical Image Analysis System

- * **Created an AI-driven Medical Image Analysis System** utilizing Flask and TensorFlow, which facilitates the automated detection of pneumonia in chest X-rays with remarkable precision.
- * **Crafted an intuitive web interface** that allows healthcare professionals to upload images and obtain immediate diagnostic feedback, enhancing efficiency.
- * Incorporated **EfficientNet for deep learning classification** and refined image preprocessing using OpenCV and NumPy to boost performance and accuracy.
- * **Deployed a cloud-based solution** to ensure high availability and scalability, enabling access to AI-powered diagnostics from various locations.

Stock Portfolio Heatmap Analyzer

- * Developed a Python-based tool using **yFinance, NumPy, and Pandas** to fetch historical stock data and **generate correlation heatmaps for selected tickers**.
- * Implemented **custom date range filters and visual analytics with Seaborn/Matplotlib** to help users identify market trends, diversification opportunities, and sectoral dependencies.
- * Designed an intuitive **Gradio interface** to allow real-time exploration of stock relationships, enabling data-driven investment analysis with minimal technical input.

Crypto Tax Calculator

- * This project helps users track their cryptocurrency trades and automatically calculates capital gains or losses using the **FIFO (First-In-First-Out) method**.
- * It fetches **real-time INR prices from the CoinGecko API** to ensure accurate tax reporting based on current or historical market data.
- * Users can add, edit, and delete trades, view real-time summaries, and export their tax reports in **CSV or TXT format** through a clean, responsive React-based interface.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML/CSS, SQL

Developer Tools/Technologies: Git, Docker, Google Colab Platform, VS Code, PyCharm, IntelliJ, Node.js, Express.js, React.js, MongoDB

Libraries: NumPy, Pandas, Matplotlib, TensorFlow, SciPy, scikit-learn

Soft Skills: Team Collaboration, Effective Communication, Time Management