

Nakul Jain

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EDUCATION

Noida Institute of Engineering and Technology <i>Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence)</i> • CGPA:7.82	Greater Noida, UP Nov. 22 – Present
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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