

Atharv Singh

B.tech

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EDUCATION

B.tech in Computer Science and Engineering (A.I)

Noida Institute of Engineering and Technology

Btech in computer science and engineering with 7.7 CGPA

11/2022 – 06/2026

greater noida

SKILLS

Languages
Java, Cpp, and Python

Framework
Flask, FastAPI

Developer Tools
Git, GitHub, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ

Soft Skills
Time Management, Public Speaking, Leadership, Presentation Skill.

PROFESSIONAL EXPERIENCE

Blood Bank Web Application PHYSICS WALLAH PVT. LTD.

06/2024 – 06/2024

- Prepared, launched, and optimized a full-stack web application that reduced manual donor-recipient matching time by up to 60%, enabling instant identification.
- Achieved 99% system uptime and ensured secure, error-free data management.

AI/ML Intern

Skill Intern India

07/2023 – 08/2023

- Composed an Image Color Detection Tool using Python and OpenCV, increasing efficiency by 0%. Resulting in a 30% reduction in manual color identification errors.
- Led the deployment and optimization of the tool across multiple user workflows, ensuring 100% accuracy in RGB/HEX valuedetection and delivering real-time analysis for up to 10,000 images

PROJECTS

Stock Portfolio Heatmap Analyzer using CNN

- Engineered an AI-driven financial analytics platform utilizing Convolutional Neural Networks (CNN) to interpret image-based correlation heatmaps, enabling advanced pattern recognition and data-driven investment decision-making.
- Developed algorithms to analyze correlation heatmaps of stock portfolios, extracting hidden relationships and market signals for improved risk assessment and portfolio optimization.
- Built and deployed a full-stack machine learning solution with an interactive Gradio-based UI, delivering real-time portfolio visualization and personalized investment recommendations through seamless integration of live market data and predictive analytics.

Smart Research Assistant (Offline AI App)

- Implemented a streamlined code review workflow with senior engineers, ensuring adherence to coding standards and achieving a 20% reduction in code-related bug reports.
- Engineered a modular AI system integrating BART, T5, and MiniLM models for document summarization, contextual Q&A, and semantic answer evaluation, demonstrating advanced expertise in Python, NLP, and machine learning.
- Built and deployed an offline research assistant using Streamlit and Hugging Face Transformers, accelerating document summarization and contextual Q&A tasks by 70% for improved research efficiency.

Prime Video Landing Page Clone

Responsive Web Development

- Engineered a fully responsive Prime Video landing page clone using HTML5, CSS3 (Flexbox & Grid), achieving 100% responsiveness across desktop, tablet, and mobile devices.
- Optimized page structure and media assets, reducing load time by ~30% and ensuring WCAG 2.1 accessibility compliance. Deployed via GitHub Pages with version control (Git), enabling seamless project tracking and public demonstration for portfolio showcase.