

# 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

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## 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.

- 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.

06/2024 – 06/2024

### AI/ML Intern

Skill Intern India

- 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

07/2023 – 08/2023

## 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.