

# ABHAY PRATAP SINGH

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## Education

**Bachelor of Technology in Computer Science and Engineering**

Oct 2022 - Oct 2026

*Galgotias University Greater Noida*

**Senior Secondary School (CLASS XII)**

April 2022

*Vishwa Bandhu Academy Gajraula*

## Technical Skills

**Programming Languages:** C/C++, Java, Python

**Web Development:** HTML, CSS, JavaScript, React

**Developer Tools:** Git, GitHub, VS Code, IntelliJ

**Areas of Interest:** Software Development, Web Development, Artificial Intelligence

**Databases:** MySQL

## Experience

**Full Stack Virtual Internship**

January 2025 - March 2025

*EduSkills Academy*

- Acquired practical experience in full-stack development by working on real-world coding tasks and troubleshooting technical issues.
- Improved application efficiency by optimizing code, resolving bugs, and enhancing system performance.
- Resolved over 50 technical issues, ensuring smooth functionality and improving user experience.

**AI ML Virtual Internship**

July 2024 - September 2024

*Google for Developers*

- Developed and deployed AI-driven solutions using TensorFlow and Scikit-learn, showcasing expertise in machine learning.
- Implemented a real-time face mask detection system achieving 84% accuracy through data preprocessing, CNN model development and performance evaluation.
- Enhanced analytical skills by solving complex problems with AI strategies and working on diverse datasets.

## Projects

**Face Mask Detection using CNN** | *Python, TensorFlow, OpenCV and Jupyter Notebook* [GitHub](#)

- Developed a CNN-based deep learning model to detect face masks using OpenCV and TensorFlow.
- Applied image preprocessing, model training, and evaluation techniques, ensuring high accuracy in mask detection.
- Integrated live camera feed processing in a shop's entry point use case, enabling instant mask detection without a web interface.

**Image Search Engine** | *HTML, CSS, JavaScript* [Github](#)

- Built a responsive image search application using HTML, CSS, and JavaScript, integrating the **Unsplash API** to fetch high-quality images based on dynamic user queries.
- Optimized application flow and user input handling, ensuring smooth search functionality and error-free interactions.
- Designed an intuitive user interface with responsive design and pagination features, enhancing user experience across multiple devices.

## Certifications

**Full Stack Web Development by Eduskills.**

Acquired hands-on experience in developing full stack web applications using HTML, CSS, JavaScript, React, and Node.js, with a focus on responsive design, RESTful API integration, and efficient backend management.

**Artificial Intelligence Fundamentals by IBM.**

Gained foundational knowledge in Artificial Intelligence concepts, including machine learning, deep learning, neural networks, and AI applications, through hands-on projects and theoretical learning under IBM's curriculum.

**Bharat Shiksha Expo Hackathon Certificate.**

Participated in the Bharat Shiksha Expo Hackathon, collaborating on innovative solutions to real-world educational challenges while enhancing skills in teamwork, problem-solving, and rapid prototyping.