

Akshay Pratap Singh

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Greater Noida, Uttar Pradesh, India - 201310

PERSONAL PROFILE

Results-driven and analytical Bachelor of Technology third year Computer Science and Engineering student at Noida Institute of Engineering and Technology, specializing in Artificial Intelligence and Machine Learning (AIML). Skilled in problem-solving, critical thinking, and algorithmic reasoning, with hands-on experience in developing AI-driven applications. Passionate about innovation, technology integration, and optimizing solutions through automation. Dedicated to continuous learning and leveraging emerging technologies to develop efficient, scalable, and impactful solutions.

EDUCATION

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| • Bachelor of Technology
Noida Institute of Engineering and Technology, Greater Noida
CGPA: 7.54 Till 2 nd Year | NOVEMBER 2022 - PRESENT |
| • Intermediate (CBSE)
Sunbeam School Ayodhya
Percentage: 71.80% | MARCH 2020 - MARCH 2021 |
| • High School (CBSE)
Sunbeam School Ayodhya
Percentage: 88.20% | MARCH 2018 - MARCH 2019 |

AREA OF EXPERTISE

- **Programming Languages:** JAVA, PYTHON BASICS, SQL
- **Web Development:** HTML, CSS, JAVASCRIPT
- **AI/ML:** Artificial Intelligence and Machine Learning Tools
- **Design Skills:** 3D CAD (Onshape)
- **Version Control:** Git, GitHub
- **Microsoft Word and Power Point**

ACADEMIC PROJECTS

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| 1. AI-Based Virtual Mouse Using Hand Gestures
• Built an AI-driven virtual mouse using Python, OpenCV, and MediaPipe for hands-free interaction.
• Integrated hand tracking with PyAutoGUI for accurate cursor movement and gesture-based controls.
• Optimized real-time performance, minimizing latency for a seamless user experience. | MARCH 2025 - PRESENT |
| 2. Handwritten Digit Recognition Using Machine Learning & Deep Learning
• Implemented a Handwritten Digit Recognition System using Convolutional Neural Networks (CNN) .
• Developed, deployed and enable real-time digit recognition using a trained deep learning model.
• Optimized model performance by applying data normalization, improving accuracy and reducing computational cost. | JANUARY 2025 - PRESENT |

EXPERIENCE

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| Smart India Hackathon 2024 - Team Co-Leader (Link)
• Led a team of six ("Hack Sparks") to develop "Mentors Connect", a web platform for real-time mentor-mentee interaction, securing 9th position out of 150 teams in the internal hackathon and advancing to the national-level finale.
• Built the platform using React, Node.js, Python, SQL, HTML, CSS, JavaScript , integrating Google Calendar for scheduling, SSL/TLS for security, and an AI-powered chatbot for user assistance.
• Improved mentor-mentee engagement through a secure, interactive platform, demonstrating leadership, problem-solving, and technical expertise in a high-stakes competition. | SEPTEMBER 2024 |
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CERTIFICATIONS

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| • Deep Learning for Developers - Infosys Springboard CERTIFICATE | SEPTEMBER 2024 |
| • Introduction to Artificial Intelligence (AI) - IBM CERTIFICATE | JANUARY 2023 |
| • Python Basics - University of Michigan CERTIFICATE | JANUARY 2023 |
| • Human-Centred Design for Inclusive Innovation - University of Toronto CERTIFICATE | MAY 2023 |
| • 2D/3D CAD Modelling of Building Environment - Bentley Systems CERTIFICATE | SEPTEMBER 2023 |

EXTRACURRICULAR ACTIVITIES

- Led a team of three in NIET's Fest Mind Fizz Quiz Championship, winning 1st place consecutively for two years.
- Secured 1st position in Kho-Kho (Men's) consecutively for two years (2024, 2025) at NIET Sports Fest (Ebullience).
- Solved 100+ LeetCode challenges, showcasing strong problem-solving and algorithmic skills.