Akshay Pratap Singh

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Greater Noida, Uttar Pradesh, India - 201310

PERSONAL PROFILE

Results-driven and analytical Bachelor of Technology fourth 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

- **Bachelor of Technology** — **NOVEMBER 2022 - PRESENT**
  Noida Institute of Engineering and Technology, Greater Noida
  CGPA: **7.67**
- **Intermediate (CBSE)** — **MARCH 2020 - MARCH 2021**
  Sunbeam School Ayodhya
  Percentage: **71.80%**
- **High School (CBSE)** — **MARCH 2018 - MARCH 2019**
  Sunbeam School Ayodhya
  Percentage: **88.20%**

AREA OF EXPERTISE

- **Programming Languages: Java, Python Basics, SQL**
- **Web Development: HTML, CSS, JAVASCRIPT, MEAN Stack**
- **AI/ML: Artificial Intelligence and Machine Learning Tools**
- **Design Skills: 3D CAD (Onshape), Photo Editing**
- **Version Control: Git, GitHub**
- **Microsoft Word and Power Point**

ACADEMIC PROJECTS

1. **AI-Based Virtual Mouse Using Hand Gestures** — **JULY 2025 - PRESENT**
   - 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.

2. **Handwritten Digit Recognition System Using Deep Learning(Link)** — **FEBRUARY - MAY 2025**
   - Built and trained a CNN using TensorFlow on MNIST dataset to classify handwritten digits with high accuracy.
   - Developed a Flask-based web application allowing users to upload images for real-time digit prediction..
   - Optimized model performance by applying data normalization, improving accuracy and reducing computational cost.

EXPERIENCE

Smart India Hackathon 2024 - Team Co-Leader(Link) — **SEPTEMBER 2024**

- 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.

CERTIFICATIONS

- 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.