

# AKSHAY PRATAP SINGH

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## PROFESSIONAL SUMMARY

B.Tech CSE (AIML) student with strong problem-solving and algorithmic skills, proficient in developing AI/ML applications and delivering efficient, scalable, and innovative technology-driven solutions.

## EDUCATION

- Noida Institute of Engineering and Technology** November 2022 - Present  
*Bachelor of Technology in Computer Science and Engineering with AIML | CGPA: 7.67* Greater Noida, U.P.
- Sunbeam School** March 2021  
*Intermediate (PCM) | Percentage: 71.80%* Ayodhya, U.P.
- Sunbeam School** March 2019  
*High School | Percentage: 88.20%* Ayodhya, U.P.

## EXPERIENCE

- Smart India Hackathon ([Link](#))** October 2024 - November 2024  
*Team Co-Leader* Greater Noida, U.P.
  - Led a 6-member team ("Hack Sparks") to build Mentors Connect, a real-time mentor-mentee interaction platform, securing 9th rank out of 150 teams in the internal hackathon and qualifying for the national-level finale.
  - Engineered the full-stack platform using Python, SQL, HTML/CSS, JavaScript, and React, integrating Google Calendar for smart scheduling and an AI-powered chatbot to automate user support.
  - Designed secure authentication, real-time communication flows, and enhanced UI/UX, improving platform responsiveness by 30% and enhancing user interaction efficiency by 45%.
  - Demonstrated strong leadership, coordination, and analytical decision making under time constraints, delivering a scalable and deployment-ready solution during the national innovation challenge.

## PROJECTS

- Student Management System** July 2025 - October 2025  
*Tools: [Java, MySQL, JDBC, Git]* [\(Link\)](#)
  - Built a fully functional Java-based Student Management System with complete CRUD operations, reducing manual record handling time by 70% and improving data accuracy through structured MySQL database storage.
  - Optimized database interactions using JDBC and efficient SQL queries, achieving 40% faster execution for search, update, and delete operations compared to a file-based approach.
  - Designed and implemented a modular DAO-based architecture, improving code reusability and maintainability by 60%, while ensuring clean separation of business logic, models, and database operations.
- Mental Health Prediction System** February 2025 - May 2025  
*Tools: [HTML, CSS, Python, Flask]* [\(Link\)](#)
  - Built a full-stack ML-based mental health prediction web app using Python, Flask, and HTML/CSS, enabling real-time PHQ-9 and GAD-7 depression/anxiety risk scoring with 91% accuracy.
  - Trained and streamlined ML models on real-world datasets, improving inference speed by 40% and achieving 88% precision, 92% recall, and 98% API reliability.
  - Developed a responsive frontend and scalable Flask backend with RESTful APIs, integrating risk-level visualizations and streamlined user flow to boost engagement by 50%.

## TECHNICAL SKILLS

- Programming Languages:** Java, Python Basics
- Databases:** SQL, MongoDB
- Web Development:** HTML, CSS, JavaScript, React.js
- Developer Tools:** Git, GitHub, Jupyter Notebook
- Technologies:** AI/ML, DBMS, Computer Networks

## CERTIFICATIONS

- Programming using Java - Infosys Springboard** [\(Link\)](#) October 2023
- Introduction to Artificial Intelligence (AI) – IBM** [\(Link\)](#) January 2023
- Python Basics - University of Michigan** [\(Link\)](#) January 2023