Samarth Singh

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SUMMARY

Motivated third-year B.Tech CSE (AI & ML) student with strong foundations in Data Structures, Algorithms, Machine Learning, and Web Development. Solved 300+ DSA problems across competitive programming platforms. Experienced in building AI-powered systems including YOLO-based computer vision models and cybersecurity applications. Collaborative, goal-oriented technology enthusiast focused on writing clean, efficient, and scalable code.

SKILLS

• Programming: C++, Python, JavaScript, HTML, CSS, Node.js
• Machine Learning & AI: YOLO, Computer Vision, Deep Learning, Neural Networks
• Databases: MySQL, MongoDB
• Tools: Git, GitHub, VS Code, Google Colab, Terminal/CLI
• Cloud: AWS
• Core Concepts: Data Structures, Algorithms, OOPS, Problem Solving

EXPERIENCE

Freelancer – Sakshi Tour and Travels | June 2025 – Present | Patna, India • Developed responsive landing page using HTML, CSS, and JavaScript. • Improved digital presence and customer inquiry generation. • Implemented optimized UI/UX practices for better user engagement.

PROJECTS

• Cattle Breed Classification Model (Machine Learning & Computer Vision) – Built YOLO-based object detection system for cattle breed identification; handled dataset annotation, preprocessing, and model training; contributed to Smart India Hackathon problem statement 4.
• Soil Health Monitoring System (AI & Deep Learning) – Developing intelligent system to assess soil quality using machine learning models integrated with backend infrastructure for agricultural insights.
• Deep Learning Video Enhancer – Designed neural network-based system to enhance video quality through frame-by-frame processing.
• Zero-Day Threat Detection System (Cybersecurity & ML) – Built anomaly detection model to identify previously unseen threats using pattern recognition algorithms.

EDUCATION

B.Tech CSE – Artificial Intelligence & Machine Learning VIT Bhopal University | Expected July 2027 High School Diploma – ST Joseph's School, Nawada | July 2022 High School Diploma – Delhi Public School, Nawada | July 2020

ACHIEVEMENTS

• Solved 300+ Data Structures and Algorithms problems.
• Actively developing AI/ML projects including YOLO model training.
• Preparing for Google Summer of Code participation.
• Completed course: Applied Machine Learning in Python.

LANGUAGES

Hindi (Native) | English (Upper Intermediate - B2)