Rishabh Sahni

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Technical Skills

- **Programming**: Python, Java
- **Data Structure And Algorithm (DSA)**: Java
- **Web Development**: React.js, HTML, CSS, JavaScript, Django
- **AI & Cloud**: Machine Learning, Deep Learning, AWS, Firebase
- **Operating Systems & Tools**: Linux/Unix, Shell Scripting (basic)
- **Databases**: MySQL, Firebase
- **Networking Concepts**: TCP/IP, HTTP (basic)
- **Version Control**: Git, GitHub

Projects

- **Smart Traffic Management System with RL and LSTM Integration**: AI-powered traffic control using Q-learning and LSTM-based flow prediction; deployed a Pygame simulation achieving **40%** reduced congestion and adaptive signal control for scalable smart-city deployment.
- **AI Voice Bot**: Versatile assistant with **12+ modules** (WolframAlpha, Wikipedia, Screenpipe, Monad) using Python, and NLP. Features voice commands, context retention, real-time search, and system automation.
- **Face Recognition App**: Real-time attendance system using OpenCV and Firebase; achieved **95%** accuracy with deep-learning-based recognition and optimized frame processing.
- **Lexicographical Compiler (Java)**: Implemented a compiler performing lexical analysis and syntax validation, built in Java with efficient tokenization and parsing. .

Hackathons & Competitions

- **Pentathon (Cybersecurity Hackathon)**: Top 60 nationally in ethical hacking challenge.
- **HackHazard (Tech Hackathon)**: Top 100 nationwide in innovation and engineering.
- **AI Showcase**: Top performer in AI-driven projects.
- **SIH National Competition**: Runner-up for culture & travel app development.
- **Research Paper**: Participant, Comparision between face recognition module and lbph algorithm

• **YI-IDS National Competition**: Runner-up for climate-tech solutions.

Education

LNCT Group of Colleges, Bhopal
B.Tech in Computer Science, 2023 – 2027
Relevant Coursework: Data Structures, Algorithms, Operating Systems, DBMS, Networking, Quantum Computing, AI

DAV ACC, Katni (CBSE)
Higher Secondary (Class 12), 2023 – PCM + CS
Secondary (Class 10), 2021 – 90% overall vspace1em

Soft Skills

• Communication & Teamwork

• Problem-Solving & Critical Thinking

• Leadership & Mentorship

• Adaptability & Quick Learning

Summary

Driven Software Engineer with expertise in **Data Structures and Algorithms (DSA)** using **Java, Python development, Artificial Intelligence (AI)**, and Full-Stack Web Development. Skilled in designing scalable, high-performance applications using modern frameworks.

Proficient in React.js, Django, and Flutter for frontend and backend development, with experience managing databases using MySQL and Firebase. Strong background in AI and Machine Learning, with hands-on experience in Natural Language Processing (NLP), Computer Vision, and Data Analysis.

Developed multiple projects in AI, web development, and cloud computing, integrating technologies such as AWS and Firebase for scalable solutions.

Certified in Quantum Computing and Cloud Computing (AWS). Passionate about problem-solving, algorithm optimization, and efficient system design, with a strong track record in hackathons, competitive coding, and industry projects.

Currently seeking a Software Engineering Internship for Summer 2026 to apply technical skills in solving real-world challenges.