Prachi Choudhary

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LinkedIn | **GitHub** | **Portfolio**

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EDUCATION

Dayananda Sagar College Of Engineering **CGPA: 9.4**

Bachelor of Engineering-Information Science And Engineering *2023 - 2027*

Indian Institute of Technology **SPI: 9.0**

B.Sc. Computer Science and Data Analytics *2023 - 2026*

(Relevant Coursework: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Machine Learning)

TECHNICAL SKILLS

Languages: JAVA, Python, JavaScript, SQL, PHP , C , C++(basic)

Core CS: Data Structures & Algorithms, Object-Oriented Programming, DBMS

Technologies/Frameworks: React.js, HTML, CSS, Node.js ,Machine Learning

Databases/Tools: : Git, GitHub, Visual Studio Code, MySQL, phpMyAdmin

EXPERIENCE

- **AI & GenAI – YBI Foundation (2025)**
  Completed structured internship in Artificial Intelligence and Generative AI.
  Developed a project applying ML pipelines and GenAI models for real-world problem solving.
- **Data Science Training – SkillDesire (2024)**
  Completed industry-focused training in Python for Data Science, Pandas, NumPy, and visualization.
  Built a data-driven project applying ML models for predictive insights.

PROJECTS

- **Traffic Police Management System**:
  - Designed a web application to streamline violation tracking, reducing manual data entry time by 60%.
  - Enabled admin-level case updates, violation history, and real-time case filtering .
  - Configured and deployed the project locally using XAMPP, ensuring seamless backend integration with MySQL via phpMyAdmin.
- **Metro Navigator**:
  - Implemented BFS, DFS, and Dijkstra's algorithm using Java to compute optimal metro routes with real-time fare calculation.
  - Built an interactive GUI to display station info and paths, reducing route planning time by 80% vs manual lookup.
  - Optimized graph traversal logic with Heap-based priority queues for route computation in O(E + V log V).
- **Student Database Management System**:
  - Developed a scalable, modular system in Python for managing student enrollment, academic records, and attendance.
  - Integrated secure login with multi-factor authentication and data encryption.
  - Features include adding, updating, and exporting student records.
- **SoulZen – AI-Powered Mental Health & Well-being Platform:**
  - Designed an AI-driven platform for mental wellness, featuring a Mental Health Quiz ,a Journal for mindfulness, Pomodoro Timer for productivity, and a Yoga Gallery for relaxation.
  - Integrated an AI Chatbot for mood tracking and personalized support, along with a Peace Box offering affirmations and calming techniques.
- **Tribal Trek – Smart Tourism Platform (Smart India Hackathon 2025):**
  - Built a digital tourism platform for Jharkhand using Next.js, React, TypeScript, Node.js, and MongoDB, integrating AI, Blockchain, and AR/VR.
  - Designed AI-driven personalized itineraries, multilingual chatbot support, predictive analytics for sustainable tourism ,and a blockchain-secured marketplace for local artisans and homestays, ensuring transparency and trust.

ACHIEVEMENTS

CODE SPRINT'24 | *MathWorks*

WINNERS

- Led a team of 3 in building a *Personalized Fitness Tracker* using MATLAB & Simulink and won the runner-up position.
- Implemented real-time food vs calorie analysis, ML-based mood detection (accuracy: 81%), and adaptive workout suggestions. Delivered a complete prototype under 24 hours in a high-pressure sprint, recognized among top 2 out of 150+ teams.

CERTIFICATIONS (*Link*)

- DSA in JAVA – Apna College (***Link***)