PRACHI CHOUDHARY

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EDUCATION

- Dayananda Sagar College of Engineering (2023-2027)
  B.E. Information Science and Engineering CGPA: 9.5
- Indian Institute of Technology, Patna (Distance Learning) (2023-2026)
  B.Sc. Computer Science and Data Analytics SPI : 9.0

TECHNICAL SKILLS

- **Languages**: JAVA, Python, JavaScript, SQL, PHP
- **Libraries/Frameworks**: React.js, HTML, CSS, MATLAB, Node.js
- **Tools**: Git, GitHub, Visual Studio Code, MySQL, phpMyAdmin
- **Technologies**: Data Structures & Algorithms, Machine Learning, Object-Oriented Programming (OOP)

PROJECTS

- **TelcoRewards – Web3 Gamified Loyalty dApp** *(Link)*
  - Developed a Web3-powered loyalty platform with secure authentication and Blockchain Wallet integration for real ETH payments.
  - Designed gamified engagement features including XP, badges, leaderboards, and sponsored tournaments to boost user retention.
  - Integrated an AI-powered Content Studio, discount coupon redemption, and a payment gateway for recharges, crypto, and bank transfers.
- **SoulZen – AI-Powered Mental Health & Well-being Platform:**
  - Designed an AI-driven platform for mental wellness, featuring a Mental Health Quiz to assess emotional state and deliver insights.
  - Built tools like 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.
- **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 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.

AWARDS & 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.