

# NAVYA JAIN

Chandigarh, India • +91 83070 89455 • navya30jain2005@gmail.com  
linkedin.com/in/navya-jain-09b366279 • github.com/navyajain30

## Summary

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AI undergraduate with strong CS fundamentals including data structures, operating systems, networking, and databases. Experienced in building full-stack applications, cloud-integrated systems, and real-time ML pipelines. Skilled in debugging, optimization, and collaborative engineering workflows.

## Education

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**B.Tech in Artificial Intelligence**, Chitkara University 2023–2027  
CGPA: 8.67

**St. Mary's Convent Sr. Sec. School**, Panipat 2023  
Class XII – CBSE

## Skills

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**Programming:** Python, Java, C++

**Core CS:** Data Structures and Algorithms, OS, Computer Networks, DBMS, OOP

**Web:** React, Node.js, Flask, REST APIs, JWT Auth

**Databases:** MongoDB, MySQL

**Cloud & Tools:** Firebase, Docker, Git, Linux, Postman

**ML:** TensorFlow, Scikit-learn, CNNs, MFCC

**Soft Skills:** Communication, Team Collaboration, Problem Solving, Adaptability, Ownership, Learning Ability

**Practices:** Unit Testing, Debugging, Logging, Performance Optimization

## Projects

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**HerCare360+** *React, Node.js, MongoDB, Firebase*

- Designed and developed core frontend and backend workflows for a women's health analytics application.
- Implemented JWT-based authentication and optimized database operations to enhance user interaction quality.
- Added structured logging and API-level test coverage to improve reliability.

**Human Scream Detection (Real-Time)** *Python, TensorFlow, MFCC, Flask*

- Built a real-time inference pipeline using CNN+MFCC achieving 95% accuracy with under 100 ms latency.
- Optimized detection thresholds and reduced false triggers by 30%.
- Developed a Flask-based endpoint for efficient audio streaming and inference.

**Manzil – AI Travel Planner** *React, REST APIs*

- Built a personalized travel planning web application integrating weather, flights, and hotel APIs.
- Implemented caching and API optimization to improve response times.
- Added NLP-based user query parsing for seamless interaction.

## Achievements

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**Hack India 2024 — Top 11/1000+** Developed a blockchain-based Proof-of-Attendance system; contributed to scalable event logging workflows.

**HackWithHer 2024 — Top 50/300+** Recognized for engineering a full-stack wellness platform with reliable backend architecture.

**Research Publication (ICTAES-24)** Published research on AI-driven climate sustainability and smart-grid optimization.

## Certifications

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Python for Data Science (IBM) • Data Visualization (IBM) • Pandas & Python (Infosys) • Applied Machine Learning (AMII)