

# Garvit Nag

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## EDUCATION

### Chandigarh College Of Engineering & Technology

Bachelor of Engineering in Computer Science & Engineering, CGPA: 7.79

Chandigarh, IN

Dec. 2021 – June 2025

## ACHIEVEMENTS

### Gen AI Exchange Hackathon by Google

October 2024

Winner

Network 18 Track

- Won first place in the Network 18 track at the Gen AI Exchange Hackathon organized by Google and Devfolio
- Developed an innovative solution to combat misinformation in video content by engineering a robust media attribution and tampering detection system
- [Project Link](#)

### Smart India Hackathon

September 2024

Internal Winner - AICTE Problem Statement

Problem Statement ID: 1728

- Proposed an innovative paperless scholarship disbursement system for the Prime Minister's Special Scholarship Scheme (PMSSS), winning the internal round
- Collaborated effectively with team members to overcome technical challenges and optimize system performance
- [Project Link](#)

## PROJECTS

### MediSage | Next.js, FastAPI, MongoDB, Stripe, Clerk

December 2024 - February 2025

- Developed a medical symptom analysis platform with tiered subscription model and secure authentication
- Implemented rate limiting system using Redis to manage API requests
- Designed interactive anatomical visualization for precise symptom mapping and analysis
- Created structured response formatting for medical analysis results
- [Link to project](#)

### RecipeRover | Next.js, TypeScript, Flask, Appwrite, MongoDB

September 2024 – November 2024

- Built a personalized recipe recommendation engine with content-based filtering algorithms
- Implemented multi-modal search functionality including text, form-based, and image-based queries
- Developed user authentication and search history tracking using Appwrite and MongoDB
- Created responsive layout adapting to mobile/desktop viewports
- [Link to project](#)

### CosmicShare | Next.js, FastAPI, Appwrite

August 2024 – September 2024

- Developed a secure file sharing platform with automatic expiration of links
- Implemented scheduled cleanup of expired files using Appwrite's storage service
- Engineered drag-and-drop upload with chunked file processing
- Designed responsive interface with intuitive UX for quick file sharing
- [Link to project](#)

## TECHNICAL SKILLS

**Languages:** Python, JavaScript/TypeScript, SQL, C/C++

**Frameworks & Libraries:** Next.js, React, FastAPI, Flask, Tailwind CSS

**Databases:** MongoDB, Firebase, Appwrite

**ML Tools:** Pandas, NumPy, Matplotlib, Scikit-learn

**Developer Tools:** Git, VS Code, Linux/Unix

## PUBLICATION(S)

**Research Paper:** AODV-PROPT: A Novel AODV-Based Routing Protocol Enhanced by Relational Parameter Indexing (ARPI) published in IJNRD

DOI: 10.1729/Journal.40670