

NANCY TYAGI

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SKILLS

Languages: Python (Expert), C++, C, SQL, Java, Typescript

Development: React.js, Tailwind CSS, Next.js, Flask, Django, Node.js, Firebase, PHP, Express.js, RESTful APIs

Frameworks & Technologies: Git, Google Colab, Linux, Windows, GitHub, Docker, AWS

Databases: MySQL, PostgreSQL, MongoDB, Redis, Mongoose, Prisma

Soft Skills: Problem Solving, Communication, Critical Thinking, Team Collaboration

EXPERIENCE

Include<her> Women Engineer Cohort 4.0

Jan 24 - March 24

Mentorship Program supported by Microsoft Azure

- Gained hands-on experience in Generative AI and LLMs, exploring tokenization, prompt engineering and the inference process of OpenAI's GPT models.
- Collaborated with a team on a real-world project under the guidance of industry experts.

Mentee at Codess.cafe

Dec 2024

- Engaged in a program centered on problem-solving and career guidance from women engineers.

PROJECTS

EEG Signal Classification for Epileptic Seizure Detection

ongoing

Research Project - AI-Powered Medical Diagnostic System

- Building an AI-powered hybrid CNN-LSTM model for real-time epileptic seizure detection using EEG data.
- Aims to deliver scalable, low-latency diagnosis support for critical medical monitoring systems.

Tech Stack: Python, TensorFlow, Signal Processing, Statistical Analysis

MargDarshak - Strategic Route Optimization System

March 2025

Bharatiya Antariksh Hackathon - AI Traffic Prediction & Emergency Response

- Designed a scalable ML-based traffic prediction system to simulate urban congestion scenarios using real-time data.
- Reduced congestion by 20% and improved emergency response efficiency by 15%.
- Integrated fault-tolerant mechanisms and predictive analytics for reliable, real-time performance.

Tech Stack: Python, Flask, MySQL, Machine Learning Libraries, Predictive Analytics

EmoSense - Secure Mental Health Monitoring Platform

Dec 2024

Smart India Hackathon Finalist - Personnel Wellness for Children

- Developed a secure mental health web app for children with 24/7 NLP-based chatbot, journaling, and behavior tracking.
- Implemented encryption protocols aligned with defense-grade standards ensuring data privacy and integrity.

Tech Stack: React.js, Node.js, MySQL, Python, NLP, Secure Authentication

EDUCATION

Ajay Kumar Garg Engineering College

2022 - 2026

Bachelor of Technology | Information Technology

CGPA: 7.56

Courses: Python Programming, Java Programming, C, Data Structures & Algorithms, Computer Architecture & Organization, Theory of Computation, Operating Systems, Object-Oriented Programming, Probability & Statistics.

Kendriya Vidyalaya KNN Ghaziabad

Class XII, CBSE

Percentage: 90%

Class X, CBSE

Percentage: 92.8%

ACHIEVEMENTS

- Selected for the TalentSprint WE Scholar Program 2023, ranking in the top 500 out of 23,000 applicants.
- Recognized among top 10 teams nationally in Smart India Hackathon for developing mental health solutions addressing critical social challenges.
- Mentored peers on emerging technologies and defense sector opportunities through Women in Tech workshops.