Nancy Singh

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EDUCATION

Vellore Institute of Technology — India
Bachelor of Technology - Computer Science and Engineering (AI & ML); GPA: 8.08 — *2022 - 2026*

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, SQL.

ML Frameworks and Libraries: TensorFlow, scikit-learn, PyTorch, OpenCV.

AI and ML: Deep Learning, Convolutional Neural Networks(CNNs), Support Vector Machines (SVM), Random Forest, Generative AI, ML Pipelines.

Tools & Frameworks: React.js, HTML, CSS, MS PowerPoint, MS word, Power BI, GitHub.

Core Concepts: Data Structures and Algorithms, Object Oriented Programming (OOP), Operating Systems, Problem Solving.

Cloud Deployment: AWS (EC2, S3, IAM), Model Deployment Basics, RESTful API Integration.

PROJECT EXPERIENCE

Face Logix - Cutting Edge Facial Recognition Attendance System — Python, CNN, scikit-learn, OpenCV *(June 2025)*

- Developed a CNN-based facial recognition pipeline using TensorFlow and OpenCV for real-time inference, incorporating automated image preprocessing and feature extraction to handle masked faces and varied lighting
- Implemented REST APIs and backend integration for model inference and database matching, enabling secure contactless attendance with 90%+ accuracy and reliable model validation.
- Built end-to-end data pipeline for ingestion, training, and deployment to support continuous model validation and production-grade real-time inference.

FoodShare Connect — Node.js, MongoDB, React.js, Machine Learning *(December 2024)*

- Engineered scalable backend services with Node.js and MongoDB, designing REST APIs and server-side logic to streamline food donation workflows and support 100+ completed donations.
- Integrated secure request validation and middleware patterns to ensure reliable platform performance and backend resilience for high-availability operations.
- Collaborated on front-end integration and data pipeline design to enable efficient donation tracking and model-ready data preparation for downstream ML components.

Healthcare Decision Support System — Python, Gen AI, Random Forest, SVM *(April 2024)*

- Designed and validated predictive models (SVM, Random Forest) in Python for disease prediction, achieving 85% validated accuracy through rigorous testing and model validation protocols.
- Implemented a GenAI-driven healthcare chatbot integrated with a centralized medical database and REST APIs, improving user engagement by 15% in the first three months.
- Developed a responsive front end and data pipeline to support model inference and user interactions, increasing engagement duration by 40% and running 500+ test cases for reliability.

CERTIFICATIONS AND INDUSTRIAL INTERNSHIPS

Applied Machine Learning in Python – Coursera
Gen AI using IBM Watsonx – IBM
AWS Solutions Architect – Associate Internship Program – AWS
Gen AI Powered Data Analytics Job Simulation – Tata Forage

ACHIEVEMENTS

Adobe India Hackathon Participation: Created an AI-powered, voice-activated safety application named EveShield for women. Led development of speech recognition systems and contributed to model improvement.

Coding Consistency: Solved 300+ Data Structures and Algorithms problems in Java on LeetCode and earned the 300-Day Coding Badge.