

Maheep Ghanshani

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EDUCATION

Vellore Institute Of Technology

B.Tech in Computer Science and Engineering (Cyber Security and Digital forensic)

Bhopal, India

Jun 2022 – Aug 2026

- CGPA: 7.69/10

EXPERIENCE

Vellore Institute of Technology (VIT) – Data Analyst & Data Science Intern Apr 2023 – Apr 2024

- Spearheaded the end-to-end development of a predictive analytics solution for early breast cancer detection, leveraging supervised machine learning algorithms.
- Conducted comprehensive data preprocessing, feature engineering, and exploratory data analysis (EDA) to extract statistically significant predictors from medical datasets.
- Designed, trained, and evaluated multiple classification models including Logistic Regression, Random Forest, and SVM, optimizing hyperparameters to improve model performance.
- Developed insightful visualizations using Pandas, Seaborn, and Matplotlib to enhance model interpretability and stakeholder communication.
- Collaborated closely with the academic mentor Dr. Praveen Lalwani to validate findings and refine analytical methodologies for improved precision.

PROJECTS

AI-Powered Fitness Coach App

Sep 2025

- Engineered an AI-driven fitness assistant using Next.js, Node.js, Tailwind CSS, shadcn/ui, Framer Motion, generating personalized workout and diet plans with LLMs, increasing accuracy by 40%.
- Integrated OpenAI and Gemini APIs to automate plan recommendations and realistic exercise/meal visuals, improving engagement by 35%.
- Embedded ElevenLabs TTS, PDF exporting, and localStorage persistence with theme toggling, enhancing accessibility for 200+ users.
- Delivered a fast, animated interface achieving a 95% Lighthouse score across 15+ responsive screens, ensuring smooth performance.

Quickbasket – Grocery Delivery App

Jan 2025

- Designed a grocery e-commerce system using the MERN stack, including secure authentication, admin panel, and catalog for 50+ items.
- Refined checkout and cart logic, reducing transactional errors by 25% and enhancing operational throughput.
- Structured a MongoDB-powered backend to handle inventory and orders efficiently, supporting 200+ transactions with reliable data synchronization.

Brain Tumor Detection (CNN)

May 2023

- Implemented Convolutional Neural Network using PyTorch & TensorFlow for MRI-based brain tumor classification, achieving high accuracy on 3,000+ images.
- Applied data augmentation and regularization techniques to minimize overfitting by 20%.
- Built a browser-compatible inference tool with Flask, reducing prediction latency to under 2 seconds per scan.

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, HTML, CSS

Frontend: React, Next.js, Tailwind CSS, Bootstrap

Backend: Node.js, Express.js, REST APIs

Databases: MongoDB, PostgreSQL, SQL

Tools & Cloud: Git, Postman, AWS, VS Code, Vercel, Netlify

Certifications: AWS Certified Solutions Architect Associate