

# Maheep Ghanshani

ghanshanimaheep04@gmail.com | +91-9664471140 | LinkedIn | LeetCode | GitHub

## EDUCATION

### Vellore Institute Of Technology

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

- CGPA: 7.69/10

Bhopal, India

Jun 2022 – Aug 2026

## 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