

# AMAN SONI

[+91-9324039253](tel:+91-9324039253) | [amanxsoni0764@gmail.com](mailto:amanxsoni0764@gmail.com) | [LinkedIn](#) | [GitHub](#)

## EDUCATION

**Bachelor of Technology in Computer Science and Engineering,**

**Oct 2022-Present**

Vellore Institute of Technology, Bhopal

**High School – HSC (90%),**

**Jun 2020-Mar 2021**

Thakur College of Science and Commerce

## SKILLS

**Language:** Java, C/C++, Python, SQL

**Front-End Technologies:** HTML, CSS, React.js

**IDEs:** Visual Studio Code, Jupyter Notebook

**Software Testing:** OpenAI API, RESTful API

**Soft Skills:** Multi-Tasking, Problem-Solving, Critical Thinking, Collaborative, Communication, Discipline

**Courses:** Machine Learning, Deep Learning

**CS Fundamentals:** Data Structures & Algorithms, OOPS, DBMS, Operating Systems, Computer Networks

## EXPERIENCE

### IBM DevOps Internship Course

**Jan 2025 - Apr 2025**

- Designed and implemented a complete CI/CD pipeline using GitHub Actions to automate build, test (Jest), and deployment processes for a containerised MERN application.
- Deployed multi-container architecture with Docker Compose and integrated Prometheus and Grafana for real-time monitoring and visualisation of application health metrics.

### Oracle Data Science Internship Course

**Feb 2025 - Jun 2025**

- Gained hands-on experience with the full data science lifecycle, including data wrangling, exploratory data analysis (EDA), model training, and deployment using Oracle Cloud tools.
- Applied machine learning algorithms such as linear regression, decision trees, and clustering in real-world scenarios using Python and Oracle Machine Learning.

## PROJECTS

### Vision Guard

[GitHub](#)

- Developed a real-time object and people detection system using HOG + SVM and Haar Cascade, achieving ~85–90% accuracy.
- Implemented distance estimation via camera geometry and bounding box metrics for real-world obstacle proximity.
- Built an asynchronous audio guidance system with gTTS and multithreading, delivering <200ms latency and ~15–20 FPS performance.
- Tech Stack:** Python, OpenCV, Flask, gTTS, Pygame, Threading, HOG.

### FinBot IQ

- Built an AI-powered personal finance chatbot using Dialogflow and Python, enabling accurate query resolution through NLP-based intent recognition and entity extraction.
- Integrated MySQL database with secure backend APIs to handle real-time financial data retrieval, ensuring efficient and reliable chatbot responses.
- Built a responsive web interface using HTML, CSS, and JavaScript.
- Tech Stack:** Dialogflow, Python, MySQL, HTML, CSS, JavaScript, RESTful APIs, NLP.

### Stock Market Prediction Model

[GitHub](#)

- Built a custom OpenAI Gym environment and trained a Dueling Deep Q-Network (DQN) agent to make buy/hold/sell decisions using historical OHLCV data and technical indicators (RSI, MACD, Bollinger Bands).
- Achieved a peak Sharpe Ratio of 9.12 through reward engineering, rolling window training, and performance visualisation across 500+ episodes using reward curves, equity growth, and risk-adjusted metrics.
- Tech Stack:** Python, PyTorch, Gym, TA-Lib, Pandas

## ACHIEVEMENTS

- Secured a rank in the top 5 out of 700+ students in the Fintech Hackathon conducted by the Fintech Club.
- Secured AIR 1 in the Jim Corbett Exam.
- Represented the College in Football at the State Level.

## POSITIONS OF RESPONSIBILITY

- Lead of the Content Team at the UX Club** **May 2024- Present**
- Lead a team of 100 members in the Club's various events organised at the University.
- Managed conflict resolution and ensured a safe, enjoyable environment for participants and attendees.
- Organised and supervised team meetings, delegating tasks effectively to enhance event efficiency.