

Aman Soni

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Education

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	VIT, Bhopal	8.51	2022-Present
Senior Secondary	MSBSHSE	90	2021
Secondary	ICSE	90.4	2019

Skills

- **Technical Skills:** JAVA, C/C++, OOPS, Python, DSA, SQL, ML, DBMS, Deep Learning, OS, AWS, CN
- **Front-End Web Technologies:** HTML, CSS, React.js
- **Tools:** VSCode, Jupyter Notebook
- **Soft Skills:** Multi-Tasking, Problem-Solving, Collaborative, Communication, Discipline

Projects

Vision Guard | [GitHub](#)

- Built real-time object and people detection using HOG+SVM and Haar Cascade with **90%** accuracy, including distance estimation via camera geometry.
- Developed low-latency audio guidance ($< 200ms$) using gTTS and multithreading, achieving **15–20 FPS**.
- **Tech used :** Python, OpenCV, Flask, gTTS, Pygame, Threading, HOG

Study-Hub (MERN Stack Ed-Tech Platform) | [Github](#)

- Developed a full-stack ed-tech platform using the MERN stack (MongoDB, Express.js, React.js, Node.js) to support seamless content creation, consumption, and learner engagement
- Built RESTful APIs for secure authentication, course management, user ratings, and video progress tracking across 20,000+ users.
- **Tech used :** React.js, Tailwind CSS, Redux Toolkit, Node.js, Express.js, MongoDB

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 used :** Python, PyTorch, Gym, TA-Lib, Pandas

Experience

IBM DevOps Industrial Training Certificate

January 2025-April 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 setup with Docker Compose and integrated Prometheus-Grafana for real-time monitoring and visualization.

AI Data Engineer Intern — DMII (EdTech Startup)

December 2024 – March 2025

- Designed scalable data pipelines (Python, SQL) to process 50k+ records daily, improving accessibility by 30% and cutting preprocessing time by 40%
- Built ML models for course recommendations, boosting accuracy by 18% and CTR by 22%, leading to 15% higher user engagement.

Positions of Responsibility

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