

Shardul Hirolikar

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EDUCATION

Vishwakarma Institute of Technology, Pune

2024 - 2028

Bachelor of technology, Computer Science and Engineering (Artificial Intelligence)

CGPA - 9.38

Relevant coursework: AI, DSA, OOP, DBMS

PROJECTS

- **MNIST Digit Recognition (Python, RayLib/PyRay)** - Designed and trained a neural network from scratch achieving ~92% accuracy; built a GUI for real-time handwritten digit testing
- **2D Cloth Simulation (Python, RayLib/PyRay)** - Developed a real-time interactive cloth simulator with adjustable stiffness, damping, and fabric-cutting mechanics
- **A* Algorithm Visualizer (p5.js)** - Implemented an interactive grid-based pathfinding visualization demonstrating A* algorithm mechanics
- **Mini Brick Breaker (Python, RayLib/PyRay)** - Created an arcade-style game with object-oriented logic, custom physics, and collision detection
- **Tic Tac Toe Bot (HTML, JavaScript)** - Built a browser-based game featuring an AI opponent using the Minimax algorithm

EXPERIENCE AND ACHIEVEMENTS

- **Solved 100+ problems on LeetCode** - consistent practice in C++ and Python
- **Contributor, GirlScript Summer of Code 2025** - Contributed to open-source projects and submitted multiple pull requests as part of a 3-month mentorship program (ongoing)
- **Shortlisted (Stage 2), PCCoE Indradhanu Hackathon 2025** - Advanced to second round for developing an AI-driven climate change solution
- **Coordinator, GameDev+ Club, VIT Pune** - Created, rigged multiple 3D game assets and edited development logs for collaborative game projects
- **Member, Vi-Culp Cultural Club, VIT Pune** - Edited multimedia content and designed event props for cultural performances

SKILLS AND CERTIFICATIONS

Technical Skills: C, C++, Python, JavaScript, Lua, Node.js, React.js, Flask, RayLib/PyRay, Pandas, NumPy, Matplotlib, MySQL, Git

Certifications:

- Cybersecurity Workshop
- Certificate of Appreciation
- Basics of Python
- Git & GitHub Workshop

VIT Pune, Aug 2025

GameDev+ Club, VIT Pune, Jan 2024

Infosys Springboard, Jan 2025

Team Quark, VIT Pune, Jan 2024