

Jay Vardhan Sharma

📍 Jaipur ✉ vardhanworks14@gmail.com ☎ 7976629995 🏠 14-10-2002
🔗 <https://vardhan0214.github.io/webportfolio/> in jay-varadhan-sharma 📄 vardhan0214

Education

Birla Institute of Technology - Mesra <i>Bachelors of Technology, Computer Science Engineering</i> ◦ (🔗)CGPA: 7.53	<i>Nov 2022 – May 2026</i>
Maheshwari Public School - Jawahar Nagar , Jaipur <i>Class XII</i> ◦ (🔗)Score: 95.6%	<i>2021</i>
<i>Class X</i> ◦ (🔗)Score: 94.8%	<i>2019</i>

Skills

Languages: Java, Python, JavaScript, C (basic), HTML5, CSS3 , SQL
Frameworks & Libraries: LangChain, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn
Developer Tools / IDEs: Jupyter Notebook, VS Code, Git, GitHub, IntelliJ IDEA, PyCharm , MySQL
Concepts: Object-Oriented Programming (OOP), Data Structures and Algorithms (DSA), Database Management Systems (DBMS), Operating Systems, Cryptography and Network Security
Learning In Progress: LangGraph, Hugging Face, GenAI, Agentic AI , FastAPI

Experience

Office of the Principal Accountant General (A&E), Jaipur, Rajasthan <i>AI/ML & Data Analyst Intern</i> ◦ Developed an ML-based fraud detection system for government financial audit data using Isolation Forest and statistical analysis. ◦ Engineered 40+ domain-specific features , including election proximity flags, GST/IT deduction flags, rolling transaction windows, and other temporal, statistical, interaction, and cyclic features. ◦ Integrated Z-score logic, duplication checks, and rolling window mechanisms to improve fraud detection accuracy. ◦ Visualized anomalous spending behavior using Seaborn and Matplotlib to support audit decisions. ◦ Optimized fraud detection by replacing manual full-dataset scanning with an ML model that targets a 4–5% high-risk subset, boosting audit efficiency . ◦ Mentored by Shri Pravindra Yadav, Principal Accountant General (A&E), Jaipur .	<i>May 2025 – Present</i>
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Projects

Online Educational Platform ◦ Designed and developed an educational platform providing free, high-quality learning resources for students across rural and urban areas. ◦ Integrated Framer for interactive UI/UX design , ensuring dynamic and intuitive user experiences. ◦ Key features: mentorship access, career guidance, research opportunities, skill tracking, financial aid. ◦ Built a dynamic AI-powered quiz generator to assess and track student understanding in real-time. ◦ Technologies: HTML, CSS, JavaScript, Python, Framer, OpenAI.	<i>SmartHub</i> 🔗
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WebPortfolio ◦ Designed and developed a clean, responsive personal portfolio using HTML, CSS, and JavaScript . ◦ Focused on modern UI/UX with smooth navigation and visual hierarchy to enhance user engage-	<i>Gallery</i> 🔗
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Certifications

IBM Developer Skills Network

Python 101 [↗](#)

- Completed training on Python basics, data structures, and Pandas using Jupyter Notebook for Data Science.

Smart India Hackathon — Internal Round (2023 & 2024)

College Level [↗](#)

- Secured 5th place in 2023 and 1st place in 2024 in the internal rounds at BIT Mesra.

Java-DSA by Apna College

Apha Batch [↗](#)

- Completed in-depth training on Java fundamentals, data structures, and algorithms with over 150+ problem-solving exercises.

Position of Responsibility

Google Developer Student Clubs (GDSC), *Senior Coordinator & Java Lead*

2022 – 2025

- Organized hackathons and technical sessions for 300+ students on Cloud Study Jams, Web Development, and Web3 technologies.

The Literature Club, *Lead*

2022 – 2025

- Led and organized events like Mock Parliament, Table Talk, Open Mic, and more.

Technical Committee, *Junior Coordinator*

2022 – 2024

- Developed working demo projects and coordinated technical showcases and events.

(Performed a major role as an anchor in most of the events across all societies mentioned above.)