

# Jay Vardhan Sharma

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🌐 <https://vardhan0214.github.io/webportfolio/>    in jay-varadhan-sharma    🌐 vardhan0214

## Education

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| <b>Birla Institute of Technology - Mesra</b><br><i>Bachelors of Technology, Computer Science Engineering</i> <ul style="list-style-type: none"><li>◦ (🔗)CGPA: 7.35</li></ul> | <i>Nov 2022 – May 2026</i> |
| <b>Maheshwari Public School - Jawahar Nagar , Jaipur</b><br><i>Class XII</i> <ul style="list-style-type: none"><li>◦ (🔗)Score: 95.6%</li></ul>                               | <i>2021</i>                |
| <i>Class X</i> <ul style="list-style-type: none"><li>◦ (🔗)Score: 94.8%</li></ul>   | <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

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| <b>Office of the Principal Accountant General (A&amp;E), Jaipur, Rajasthan</b><br><i>AI/ML &amp; Data Analyst Intern</i> <ul style="list-style-type: none"><li>◦ Developed an <b>ML-based fraud detection system</b> for government financial audit data using <b>Isolation Forest</b> and statistical analysis.</li><li>◦ Engineered <b>40+ domain-specific features</b>, including election proximity flags, GST/IT deduction flags, rolling transaction windows, and other temporal, statistical, interaction, and cyclic features.</li><li>◦ Integrated <b>Z-score logic, duplication checks, and rolling window mechanisms</b> to improve fraud detection accuracy.</li><li>◦ <b>Visualized anomalous</b> spending behavior using Seaborn and Matplotlib to support audit decisions.</li><li>◦ Optimized fraud detection by <b>replacing manual full-dataset scanning</b> with an ML model that targets a <b>4–5% high-risk subset, boosting audit efficiency.</b></li><li>◦ Mentored by <b>Shri Pravindra Yadav, Principal Accountant General (A&amp;E), Jaipur.</b></li></ul> | <i>May 2025 – Present</i> |
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## Projects

|  |                   |
|--|-------------------|
| <b>Online Educational Platform</b><br><ul style="list-style-type: none"><li>◦ Designed and developed an <b>educational platform providing free, high-quality learning resources</b> for students across rural and urban areas.</li><li>◦ Integrated Framer for <b>interactive UI/UX design</b>, ensuring dynamic and intuitive user experiences.</li><li>◦ Key features: mentorship access, career guidance, research opportunities, skill tracking, financial aid.</li><li>◦ Built a dynamic <b>AI-powered quiz generator</b> to assess and track student understanding in real-time.</li><li>◦ <b>Technologies:</b> HTML, CSS, JavaScript, Python, Framer, OpenAI.</li></ul> | <i>SmartHub</i> 🔗 |
| <b>WebPortfolio</b><br><ul style="list-style-type: none"><li>◦ Designed and developed a clean, responsive personal portfolio using <b>HTML, CSS, and JavaScript.</b></li><li>◦ Focused on <b>modern UI/UX with smooth navigation and visual hierarchy</b> to enhance user engage-</li></ul>  | <i>Gallery</i> 🔗  |

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## Certifications

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### 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

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### 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.)*