

Lakshay Gupta

Email: lakshaygupta32009@gmail.com |
LinkedIn: linkedin.com/in/lakshay32009

Website: lakshaygupta.in |

PERSONAL PROFILE

I am a motivated and curious student with a strong foundation in Computer Science, Mathematics, and Technology. I have pursued practical learning through programming projects, cybersecurity and AI research, and industry-relevant certifications. I enjoy problem-solving, analytical thinking, and applying technical concepts to real-world scenarios. I aim to study Computer Science with Mathematics at university to deepen my understanding of algorithms, AI, and software systems.

EDUCATION

- Wisdom World School, Kurukshetra (CBSE), Haryana, India

Class 11& 12 – Science (2024–2026)

Subjects: Physics, Chemistry, Mathematics, Computer Science (AI), English

Class 10 – CBSE Board Examination Results (2024):

- English: A1
- Mathematics: A2
- Multimedia: A2
- Hindi: B1
- Science: C1
- Social Science: C1

RESEARCH PUBLICATIONS

1. Detection of Fraud in Banks and Insurance Organizations (IJFMR, 2025)

Published In	Volume 7, Issue 6, November-December 2025
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Abstract: With the acceleration of digitization of financial transactions, the threat of fraud for banking and insurance institutions has grown in number as well as type of technique, leaving in their wake enormous financial as well as reputational losses. In the paper, we have made an exhaustive analysis of modern fraud detection issues, advanced artificial intelligence (AI) and machine learning (ML) techniques, as well as advanced prevention techniques introduced in 2025.

Highlighting banking and insurance sector-specific fraud trends, the paper illustrates advanced AI-powered solutions, collective intelligence, and multi-layered security as future fraud management revolutions.

2. Artificial Intelligence & Its Applications (IJFMR, 2025)

Published In	Volume 7, Issue 6, November-December 2025
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Abstract: Artificial intelligence (AI) is the science and engineering of making intelligent machines, especially intelligent computer programs. It is related to the similar task of using computers to understand human intelligence, but AI does not have to confine itself to methods that are biologically observable. While no consensual definition of AI exists, it is broadly characterized as the study of computations that allow for perception, reasoning, and action. The growing technology of expert systems applies AI to solve complex problems in education, business, medicine, and more, improving quality and efficiency. The digital divide limits educational equity worldwide, as many lack access to stable internet and modern devices, constraining access to AI educational tools. Lightweight AI frameworks accessible via common communication media aim to democratize education while reducing environmental costs associated with print-based learning.

SUMMER SCHOOL

Stanford University – Summer Session (Selected)

Stanford, CA | Course begins June 22, 2026

- Selected for a highly competitive university-level summer program at Stanford University
- Will participate in rigorous academic coursework alongside a globally diverse cohort of high-achieving students
- Expected to further develop advanced analytical, critical thinking, and problem-solving skills in a research-intensive environment

Mesa School – Future Founders Summer School | Bangalore, India

Selected Participant, Entrepreneurship & Startup Accelerator | 2026

- Selected for a competitive founder-focused summer program centered on entrepreneurship, innovation, and AI-driven business building.

- Collaborated with aspiring student founders to develop startup concepts, validate ideas, and refine product-market fit strategies.
- Explored startup execution, pitching, branding, growth, and problem-solving through hands-on workshops and mentor-led sessions.
- Strengthened leadership, entrepreneurial thinking, and cross-functional collaboration skills in a fast-paced startup environment.

HIMSHIKHAR 2026 – CCE, IIT Mandi | Himachal Pradesh, India

Selected Participant, Advanced Software Development & AI Program | 2026

- Selected for a highly competitive technology and innovation program hosted at the Indian Institute of Technology Mandi, bringing together high-performing students with strong interest in software engineering, AI, and entrepreneurship.
- Engaged in intensive project-based training in software development, computational problem-solving, and AI-driven product design within an IIT-led innovation ecosystem.
- Collaborated with peers and mentors on building scalable tech solutions while exploring real-world applications of emerging technologies.
- Strengthened technical, analytical, and leadership skills through rigorous workshops, hackathon-style collaboration, and startup-oriented execution.

ONLINE COURSES(CERTIFICATIONS)/ ACADEMIC ENRICHMENT

Advanced Mathematics & Machine Learning

- Mathematics for Machine Learning: Multivariate Calculus — Imperial College London
- Algebra: Elementary to Advanced Specialization — Johns Hopkins University
- Introduction to Discrete Mathematics for Computer Science — UC San Diego

Computer Science & Data Science

- What is Data Science? — IBM
- Python for Data Science, AI & Development — IBM
- HTML, CSS, and JavaScript for Web Developers — Johns Hopkins University

Cybersecurity

- Cybersecurity Compliance Frameworks, Standards & Regulations — IBM
- Google Cybersecurity Professional Specialization:
 - Foundations of Cybersecurity (99.34%)

- Assets, Threats & Vulnerabilities (97.62%)
- Manage Security Risks (95.69%)
- Networks & Network Security (94.65%)
- Prepare for Cybersecurity Jobs (95.25%)
- Automate Cybersecurity Tasks with Python (97.62%)
- Linux & SQL Tools (94.30%)
- Detection & Response (94.06%)
- Wireshark for Beginners — 100%
- Accelerate Your Job Search with AI — 100%

IoT & Hardware

- Raspberry Pi Platform & Python Programming — UCI Division of Continuing Education

Productivity & Tools

- Microsoft 365 Fundamentals Specialization — Microsoft

TECHNICAL SKILLS

Programming: Python, Java, C++, Node.js

Software & Tools: Adobe Photoshop, Illustrator, Premiere Pro, After Effects, Adobe XD, Figma, Canva, Autodesk Maya, GitHub, VS Code

Concepts: Cybersecurity fundamentals, ML basics, NLP basics, data structures, algorithms, hardware integration with Arduino

PROJECT EXPERIENCE

- Personal Portfolio Website – lakshaygupta.in

Developed a digital portfolio to present achievements and projects.

- Arduino Automation Projects

Built small-scale automation systems using Arduino UNO and sensors.

- Design & Creative Tools Work

Created posters, UI layouts, and digital assets using Adobe Suite and Figma.

ACHIEVEMENTS

Penn State University | University Park, Pennsylvania, USA

Admitted – B.S. in Computer Science | 2026

- Earned admission to Pennsylvania State University’s Computer Science program through a competitive international applicant pool.
- Recognized for strong academic performance, technical initiative, and entrepreneurial potential in software and AI-driven innovation.
- Intends to pursue advanced work in software engineering, artificial intelligence, startups, and scalable technology systems within a top U.S. research ecosystem.

Short, clean, confident.

Gives “future founder + cracked CS applicant” energy without sounding cringe 🤖🔥

Selected Participant, Harvard Youth Lead the Change (HYLC) | Chitkara University | Jan 2026

- Leadership bootcamp focused on **purpose-driven leadership, collaboration, and problem-solving**
- Presented team solutions on leadership to mentors/peers
- 1st Prize – Design.io Competition by Kreative Eyes
- 3rd Prize – Science Exhibition, JMIT Radaur
- 1st Prize (twice) – Graphic Design Competition, School Fest
- Published 2 Research Papers in AI & Fraud Detection
- MUN Participant – JMIT Radaur
- Open House Quiz Participant – JMIT

INTERNSHIPS

- Technology & Digital Operations Intern, Ganpati Foods, Nilokheri (May 2024 – Nov 2024)
 - Digitized inventory and operational data using spreadsheets and automation tools.
 - Assisted in analyzing stock movement to identify inefficiencies and reduce manual errors.
 - Helped structure procurement, packaging, and dispatch documentation workflows.
 - Supported logistics and supplier communication through organized digital records.

– Contributed to operational optimization through structured data management.

- **Automation & Data Intern, Madhu Enterprises** (June 2025)

- Designed and implemented Python-based automation pipelines to replace manual operational workflows.
- Cleaned, structured, and analyzed large operational datasets to improve reporting accuracy and consistency.
- Built automated reporting scripts to standardize data outputs and reduce human error.
- Applied data-driven analysis to identify inefficiencies and support process optimization.

LEADERSHIPS

- School Council Member – Coordinated school activities and supported student representation.
- Science & AI Club Member – Participated in tech-focused events and competitions.
- Organizing Head: School Fest

COMMUNITY SERVICES

The Aadya Cooperative Labour and Construction Society Ltd. Jhansa.

- Participated in multiple community initiatives aimed at supporting local families, improving neighborhood well-being, and assisting school students.
- Contributed to donation drives for orphanages and old-age homes by helping collect, organize, and distribute essential supplies.
- Supported community-led efforts focused on addressing everyday needs through consistent participation and organized service.

INTERESTS

Technology: Artificial Intelligence, Cybersecurity, Robotics, Algorithms, Mathematics, UI/UX Design.

Sports: Badminton, Cricket& Chess

Travelling: China, Hong Kong, Macao, France, Germany, Switzerland, Netherlands, Italy, Belgium, Malaysia, turkey, Qatar, Doha, Thailand, Indonesia