Samyak Jain

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OBJECTIVE

As a Computer Science Student fascinated by AI and Software Development, I am eager to take on challenging roles that push me to innovate, learn continuously, and make meaningful contributions while collaborating with a passionate team.

EXPERIENCE

- **CSIR- National Physical Laboratory**   *May 2025- July 2025*
  Summer Intern   Delhi, India
  - Developed an Arduino controlled LCD Phase Modulation system for digital holography applications.
  - Implemented Phase Retrieval Algorithms to determine material hardness with improved precision.
  - Integrated hardware control and data analysis, enhancing measurement accuracy.

EDUCATION

- **Amity Uiversity**   *2022- 2026*
  B.Tech CSE IoT & Cyber Security inc. BCT   Noida, Uttar Pradesh
  - GPA: 7.60/10.00

- **Lovely Public Senior Secondary School**   *2021*
  CBSE Class 12   Delhi
  - Percentage: 89.75%

PROJECTS

- **Deforestation Detection using U- Net and Satellite Imagery**   *August 2025- Present*
  Tools: Python, TensorFlow, OpenCV, NumPy, Pandas, Google Earth Engine, Git   [O]
  - Built a U- Net segmentation model, achieving over 90% pixel- wise accuracy and 0.88 IoU.
  - Designed and deployed a modular data processing pipeline, automating analysis of 100+ satellite and synthetic images.

- **Smart Attendance System using Facial Recognition**   *March 2025- May 2025*
  Tools: Python, OpenCV, NumPy, Pandas, face-recognition, MySQL   [O]
  - Developed a facial recognition based attendance system using Python and OpenCV, achieving 95% face detection accuracy.
  - Integrated with a MySQL database for secure, automated storage retrieval of attendance records.
  - Optimized real time processing, reducing attendance marking time by 70% compared to manual methods.

SKILLS

- **Programming Languages:** C++, Python, Java, MicroPython HTML, CSS, JavaScript
- **Developer Tools:** Git and GitHub, VS Code, Arduino IDE
- **Frameworks:** OpenCV, NumPy, Pandas, React.js
- **Databases:** MySQL, Excel
- **Soft Skills:** Problem Solving, Team Collaboration, Time Management, Fast Learner, Communication, Public Speaking
- **Relevant Coursework:** Data Structures and Algorithms, Object- Oriented Programming, Operating System, DBMS, Computer Networks, Artificial Intelligence, IoT and its applications, Cyber Security

ACHIEVEMENTS

- **Certified** Completed CCNAv7: Introduction to Networks certification.
- **NPTEL Certifications** Successfully completed NPTEL courses on Introduction to IoT and Recommender Systems.
- **Hackathons/Competitions** Participated in Hackathons and MUNs, top 5 teams in Microsoft Ideathon.
- **Volunteer Work** Managed ALiAS socials, organized workshops and events, and contributed to open-source initiatives.
- **Social Contribution** Volunteered at Kind Beings NGO.

AREAS OF INTEREST

- Artificial Intelligence and Machine Learning, Software Development, Full Stack Web Development, Cloud Computing, DevOps