

NISHITA KUMARI

B.Tech, Mathematics & Computing | Machine Learning & Software Engineering

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SUMMARY

Mathematics and Computing undergraduate (CGPA 9.11) working toward a career in machine learning. Comfortable building end-to-end: predictive models in Python, systems-level object-oriented design in C++, and the interfaces that make results legible.

EDUCATION

Jaypee Institute of Information Technology

Noida | 2025 – 2029

B.Tech, Mathematics and Computing · CGPA: 9.11 / 10

Relevant coursework: Data Structures & Algorithms, Machine Learning Fundamentals, Introduction to Artificial Intelligence, Probability & Statistics, Discrete Mathematics, Computational Mathematics, Mathematical Foundations, Python and C++ Programming.

Rahul International School, Mira Road — Class XII

96.2%

Delhi Public School, Indirapuram — Class X

84.2%

PROJECTS

ARGUS — Crime Surveillance & Prediction Engine

[GitHub](#)

C++ · STL · Object-Oriented Design

- Designed an object-oriented crime analysis engine in C++, applying inheritance, polymorphism, class templates, and exception handling over STL containers.
- Scored and ranked risk across 500 records of violent, property, and cyber crime spanning 20 Indian cities, surfacing trends by category and city.

AQI Prediction — Delhi Air Quality Forecasting

[GitHub](#)

Python · NumPy · Pandas · Matplotlib

- Built a model forecasting Delhi's Air Quality Index from two years of hourly readings across eight pollutants (CO, NO, NO₂, SO₂, O₃, PM2.5, PM10, NH₃).
- Paired the model with an HTML interface for visualising predicted values and pollutant trends over time.

Personal Portfolio Website

[Repo 1](#) · [Repo 2](#)

HTML · CSS · JavaScript · Vercel

- Designed, built, and deployed a personal portfolio on Vercel, iterating through two distinct visual directions to compare formal and expressive presentations of the same work.

TECHNICAL SKILLS

Languages	Python, C++, C, Java
Data & Machine Learning	NumPy, Pandas, Matplotlib
Web	HTML, CSS, JavaScript
Databases	MySQL
Tools	Git, GitHub, VS Code, Vercel
Design	Canva, Framer, Photoshop

LEADERSHIP & ACTIVITIES

Technical & Management Volunteer — AIML Hub, IIIT

2026

Technical & Management Volunteer — DICE, IIIT

2026