Nayan Srivastava

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# Summary

Computer Science undergraduate with a strong academic foundation (CGPA: 9.02) and a proven ability to **develop** and **implement** impactful technical solutions. Excels in **resolving** complex challenges through innovative software design. Skilled in **leading** collaborative efforts and delivering measurable outcomes that enhance system efficiency.

# Education

## Bachelor of Technology in Computer Science and Engineering with specialisation in Artificial intelligence and Machine Learning (Ongoing)

VIT Bhopal | **Current CGPA:** 9.02

## 12th Grade

Army Public School, Pithoragarh | **Percentage:** 92.8%

## 10th Grade

St. Mary’s Convent High School, Kanpur | **Percentage:** 93.4%

# Skills

## Programming Languages:

* Proficient: **C++, Python, Java** **Database Management:**
* **MySQL**: Designing schemas, optimizing queries, and ensuring data integrity.

# Experience- Projects

## Virtual Mouse:

* + - Developed a virtual mouse using computer vision and machine learning technologies.
    - Implemented cursor control via hand gestures for actions like clicks and scrolls.
    - Designed with accessibility in mind, offering an alternative for users with physical disabilities.
    - Achieved 95% gesture recognition accuracy after iterative training and testing. Tools used: Python, OpenCV, AI frameworks.

## Fees Management System:

* + - Designed and implemented a backend system to manage student fee records using Python and SQL.
    - Included functionalities for adding, updating, retrieving, and generating fee transaction reports.
    - Ensured data integrity through robust database schema design and validation mechanisms.
    - Achieved a 40% reduction in query response time for large datasets. Automated report generation, reducing manual effort by 70%.

**Achievements:**

* Earned in the G Viswanathan Hackathon, earning a semifinalist position out of **1000+ participants**.
* **Established** a YouTube channel teaching Swift programming, gaining positive feedback for clarity and engagement.

# Leadership and Extracurricular Achievements:

* **Directed** the "iOS Unlocked" event, attended by **200+ participants** and mentoring peers.
* **Supervised** operations for a **800+ resident community** as a member of the hostel Discipline Committee.
* **Competed** in state-level badminton tournaments, securing **top 8 finishes** in multiple events.

# Strengths:

* Strong problem-solving skills with the ability to **analyze** and **address** complex challenges effectively.
* Quickly **adapts** to new technologies and **delivers** measurable improvements in system performance.
* Contributed to **8+ projects**, **elevating** quality and **reducing** delivery time by **30%**.