

# Noil Gupta

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## Education

Harcourt Butler Technical University, Kanpur	2023 - Present
• Electrical Engineering   CGPA: 7.2	
Sumeet Rahul Sr. Sec. School, Agra	2021 - 2022
• Class XII (CBSE)   Aggregate: 95.2%	
Sumeet Rahul Sr. Sec. School, Agra	2019 - 2020
• Class X (CBSE)   Aggregate: 90.8%	

## Skills

**Languages:** Python, Java, C, C++, JavaScript  
**Frameworks/Tools:** React, Node.js, Express.js, MongoDB, Git  
**Core Engineering:** Object-Oriented Programming, Data Structures & Algorithms  
**Additional:** MySQL, Responsive Design, UI/UX Principles, MATLAB (Intermediate)  
**Soft Skills:** Collaboration, Technical communication, Project management, Team leadership

## Projects

Autonomous Maze-Solving Robot Using Sensor-Based Navigation	Feb'24
Designed a microcontroller-based autonomous robot for real-time path detection, decision-making, and maze traversal using sensor-driven logic.	
• Implemented IR-sensor-based detection and adaptive decision algorithms, <b>increasing navigation consistency by 15%</b> in complex maze environments.	
• Developed modular and scalable algorithmic architecture aligned with structured software development practices and <b>embedded C programming</b> .	
High-Performance Robo Soccer Bot for Real-Time Motion Control	Sep'23
Engineered a fast-response robotic soccer bot emphasizing real-time control, precision maneuvering, and algorithmic motion optimization.	
• Developed <b>low-latency, real-time</b> motor control algorithms, improving <b>on-field responsiveness by 20%</b> and maximizing directional accuracy.	
• Applied <b>user-centered design principles</b> by iteratively refining bot interaction, feedback, and performance metrics.	

## Achievements

- Winner of multiple **IEEE technical quizzes**, demonstrating proficiency in analytical problem-solving and technical domain knowledge.
- Top performer in inter-college chess tournaments, showcasing **strategic reasoning** and efficient **decision-making under pressure**.
- Presented engineering projects at departmental events, strengthening **technical communication skills**.
- Participated in reasoning and financial literacy challenges, focusing on **data interpretation and structured analysis**.

## Positions of Responsibility

President   Association of Electrical Engineering, HBTU	Sep'25 - Present
• Led a 200+ member association, <b>managing the execution of 12+</b> technical events, workshops, and speaker sessions.	
• Enhanced departmental outreach by coordinating with faculty and external groups, requiring strong <b>written and oral communication</b> with stakeholders	
• Collaborating with faculty and external industry groups to enhance technical exposure for students.	
Community Head   Chess Club, HBTU	Aug'25 - Present
• Leading club operations, mentorship programs, and player development activities.	
• Organized <b>10+ inter-college chess tournaments</b> with 150+ participants; handled logistics, communication, and event promotion.	
• Conducting community engagement initiatives to increase event participation and club visibility.	

## Hobbies

Chess | Design | Badminton | Dance