Mohit Agrawal

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Skills

Languages: Java, Python, C, HTML, CSS, JavaScript (Basic), SQL, Verilog
Technologies and Tools: Microsoft Azure, Git, GitHub, MATLAB, Vivado, Arduino

Education

Shri Ramdeobaba College of Engineering and Management (RCOEM), Nagpur   *Dec 2021 - Jun 2025*
B. Tech. in Electronics Engineering   **CGPA: 9.92/10 (Top 1% in college)**
Relevant Coursework: Data Structures and Algorithms, Database Management System, Object Oriented Programming, Computer Architecture and Organization

Project Work

Portfolio Website
- Developed a portfolio website showcasing frontend development skills, including project demonstrations, achievements, and personal information, with a strong emphasis on clean UI.
- Integrated project demonstration videos, achieving a user engagement rate of over 80%. HTML, CSS, JavaScript.

HanoiHelper: The Puzzle-Solving Prodigy | Demonstration
- Implemented a hardware-based demonstration of the Tower of Hanoi recursive algorithm using Arduino Uno and servo motors, ensuring precise servo calibration and dynamic problem-solving capabilities with over 95% accuracy.
- Achieved the project on a budget significantly lower than the typical cost of similar projects, with a savings of approximately 60%. Arduino Programming, Hardware Integration, Algorithm Optimization.

SpotSense: Intelligent Stage Spotlight System | Demonstration
- Engineered a cost-efficient automatic spotlight system using Arduino Uno, Ultrasonic sensors, and a servo motor to track and illuminate the anchor's position in real time.
- Achieved a cost reduction of approximately 80% compared to typical systems, while maintaining an accuracy rate of over 90% in spotlight positioning. Arduino Programming, Sensor Integration.

Awards and Certificates

- Secured 2nd position in Ennovate, a National Level Project Competition, for the 'HanoiHelper' project.
- **Merit Scholarship** for 2nd rank in 2nd year.
- Microsoft Azure Fundamentals Specialization on Coursera

Extracurricular Activities

Embedded Club, RCOEM   *Jan 2024 - Present*
Project Head
- Led and mentored a team of 20 - 25 juniors, teaching Arduino fundamentals, sensor mechanisms, and electrical connections, while overseeing major projects like HanoiHelper and a Line Follower Robot.
- Fostered their growth and club development while enhancing skills in Communication, Project Management, Leadership, and Technical expertise.