

# Simran Goyal

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[LinkedIn](#) — [GitHub](#) — [LeetCode](#) — [HackerRank](#) — [Portfolio](#)

## PROFESSIONAL SUMMARY

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- Final-year B.Tech student specializing in Internet of Things with a strong foundation in Data Structures, SQL, and database management.
- Skilled in problem-solving using C and Python, with experience in building web applications and data-driven projects using HTML, CSS, and basic backend concepts.
- Hands-on experience with IoT systems using Arduino and familiarity with data analysis tools like Pandas and Matplotlib; quick learner with strong analytical and teamwork skills.

## TECHNICAL SKILLS

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- **Programming Languages:** C, Python, SQL
- **Data Structures & Algorithms:** Problem Solving using C/Python, Arrays, Strings, Basic DSA Concepts
- **Web Development:** HTML, CSS, Basic UI/UX Design Principles, Responsive Design (Familiar with React.js and Flask)
- **Databases:** MySQL, Database Design, CRUD Operations
- **Tools & Platforms:** Git, GitHub, VS Code, Linux (Basic)
- **Core Concepts:** Object-Oriented Programming (OOP), DBMS, Operating Systems, Computer Organization & Architecture, Basics of IoT and Arduino

## EDUCATION

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### Samrat Ashok Technological Institute

Nov 2022 – June 2026

*B.Tech – Internet of Things — CGPA: 7.65*

*Vidisha, MP*

## PROJECTS

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- **Arduino-Based Automatic Pill Dispenser** **Tech:** Arduino Uno, Servo Motor, C/C++, IoT [GitHub](#)
  - Engineered a time-triggered automated pill dispenser using Arduino Uno with an RTC module for scheduled medication delivery
  - Integrated servo motor, buzzer, and sensors for automated dispensing and alert mechanisms
  - Optimized hardware-software coordination to improve system reliability and reduce manual intervention
- **GATE Preparation Tracker Dashboard** **Tech:** Python, SQL, Pandas, Matplotlib [GitHub](#)
  - Built a dashboard to track subject-wise preparation progress and identify weak areas
  - Used Pandas and Matplotlib to analyze and visualize performance trends
  - Implemented user authentication for secure access to study data
- **KrishiSarathi — Contract Farming Platform** **Tech:** React.js, Flask, Tailwind CSS [GitHub](#)
  - Developed a platform for secure and transparent contract farming between farmers and buyers
  - Built RESTful APIs using Flask and integrated a multilingual chatbot for real-time query handling
  - Designed a responsive user interface using React.js and Tailwind CSS
- **Hospital Management System** **Tech:** Flask, SQL, HTML, CSS [GitHub](#)
  - Developed a system to manage patient records and appointment scheduling
  - Implemented backend using Flask with database support for efficient data handling
  - Designed a responsive interface for better usability
- **Tic Tac Toe Web Game** **Tech:** Python, HTML, CSS [GitHub](#)
  - Developed an interactive web-based Tic Tac Toe game with turn-based logic
  - Implemented win and draw condition handling for smooth gameplay experience

## INTERNSHIPS

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- **Recent Trends in IT Internship (July 2023):** [\[Certificate\]](#) Gained exposure to emerging technologies including machine learning, embedded systems, and data handling. Developed understanding of industry-relevant tools and concepts.
- **Accenture North America – Data Analytics Virtual Internship (July 2024):** [\[Certificate\]](#) Performed data cleaning and visualization on real-world datasets. Identified trends and generated insights using structured analysis.
- **Data Analytics Job Simulation (2024):**[\[Certificate\]](#) Worked on dataset exploration and generated data-driven insights. Applied analytical reasoning to solve business-related problems.

## ACHIEVEMENTS

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- **SIH 2024 – National Finalist:** [\[Certificate\]](#)  
Selected at the national level in Smart India Hackathon for developing an innovative ML-based web crawler system, demonstrating strong problem-solving and teamwork skills.
- **WittyHacks 4.0:** [\[Certificate\]](#)  
Built an innovative solution during a 36-hour hackathon, showcasing rapid development, collaboration, and execution under time constraints.
- **HackJKLU 2025:**[\[Certificate\]](#)  
Developed an IoT-based grain quality analyzer using machine learning techniques for real-world agricultural problem-solving.
- **Volunteer Experience:**[\[Certificate\]](#) Contributed to organizing Young Scientist Congress and SIH events, demonstrating leadership and coordination skills.