SANCHIT JAKHETIA

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Summary

I am a third-year B.Tech IT student at NIET, exploring emerging technologies like Java, Python, and IoT. With hands-on experience in IoT-based projects, I focus on solving real-world problems. My key projects include a University Admission and Maintenance System and an IoT-enabled farming system. Passionate about innovation, problem-solving, and collaboration, I aim to merge creativity with technology for meaningful impact.

Education

Noida Institute of Engineering and Technology (NIET)   **2023 - Present**
Bachelor of Technology in Information Technology, CGPA: 8.49

St. Mary's School, Najibabad   **2022 - 23**
12th Grade, CISCE, Percentage: 80.2%

St. Mary's School, Najibabad   **2020 - 21**
10th Grade, CISCE, Percentage: 85.5%

Technical Skills

Programming: Java, Python, C   **Databases:** SQL, MongoDB (CRUD)   **Data Structures and Algorithm**
Machine Learning: Basic Scikit-learn   **IoT & Embedded:** Arduino, ESP32, Basics of MQTT & Cloud
Tools: GitHub, IoT   **Soft Skills:** Design Thinking, Problem Solving, Team Collaboration, Public Speaking

Experience

Edunet Foundation LINK   **Jul 2024**
Intern
- Focused on learning and understatnding Artificial Intelligence and Machine Learning concepts.
- Developed a chatbot using IBM Cloud, optimizing automated response time and improving user interaction.
- Implemented multi-level decision-based conversation, allowing users to filter products by category and budget.

Projects

University Admission and Maintenance System LINK   **Dec 2024**
Skills: Java, Java Swing, SQL, File Handling, Modular Programming
- Built a Java-based application to automate processes like admissions, faculty management, and timetable scheduling.
- Designed role-based dashboards for admin and students to ensure smooth operations.
- Implemented SQL-based database handling for efficient data storage and retrieval.

Pseudo Keyboard Using ESP32 LINK   **Nov 2024**
Skills: Bluetooth, Python GUI, ESP32, Automation
- Developed a Bluetooth-based pseudo keyboard system to automate typing across devices using an ESP32.
- Designed a custom Python GUI to send character-by-character text or code blocks to the ESP32.

IoT-Based Automated Vertical Farming System LINK   **Sep 2024**
Skills: Arduino, IoT, Sensors, Water Circulation Systems
- Implemented real-time monitoring of plant growth parameters such as humidity, pH, and TDS using sensors.
- Worked with water circulation systems to maintain optimal plant growth in a compact indoor environment.

Certifications & Achievements

1st Place at IoTron 3.0, NIET Greater Noida, in a line-following race competition — Nov 2024

3rd Prize in Project Display on Agriculture and Rural Development at UP International Trade Show, Gr. Noida — Sep 2024

Getting Started with Artificial Intelligence – IBM — Jul 2024

EnglishScore Core Skills test – British Council — Jul 2024

2nd Place in IoT-Based Competition Xmble 2.0 at NIET's Annual Tech Fest, Ebullience — Apr 2024.

Next Gen Technologies – Infosys Springboard — Mar 2024