Sanil Devaram Parmar

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Summary

Enthusiastic and detail-oriented B.Tech undergraduate in Industrial Internet of Things at NIT Kurukshetra (CGPA: 9.37), with hands-on experience in C++, Python, and embedded systems. Skilled in developing IoT solutions, secure client-server communication, and machine learning models. Proven problem-solving ability with 250+ LeetCode questions solved. Passionate about integrating technology with real-world applications, currently exploring data analytics in sports and automation systems.

Education

National Institute Of Technology, Kurukshetra — Kurukshetra, India

B.Tech in Industrial Internet Of Things (IIoT) — *August 2023 – August 2027*

- CGPA: 9.37

Technical Skills

Languages: Python, C++, C, SQL, MATLAB, Embedded C, Java, HTML, CSS
Frameworks: Pandas, NumPy, Scikit-Learn, Seaborn
Platforms: Jupyter Notebook, VS Code, Intellij IDEA
Databases: PostgreSQL
Core Competencies: Data Preprocessing, Machine Learning, IoT, Embedded Systems, OOP, Networking
Problem Solving & Current Work: 300+ LeetCode problems solved; EDA on IPL dataset ongoing

Projects

WebSocket Client (GitHub) 2025

C++, GN Build, WebSocket, TCP/IP, SSL/TLS, Google Test

- Developed a WebSocket client in C++ with a CLI for bidirectional communication with echo servers.
- Integrated SSL/TLS for encrypted communication and robust error handling for connection lifecycle.
- Used GN build system with debug/release flag configurations; validated with Google Test.

IoT Home Automation System 2025

NodeMCU, Sensors, Arduino IDE, Telegram API, C++

- Built an IoT-based automation system using NodeMCU to control fan, lighting, water motor, and security locks.
- Used DHT11, PIR, and ultrasonic sensors to drive real-time decisions; controlled via Telegram-based OTP.
- Programmed using Arduino IDE and C++ to integrate all sensors, actuators, and cloud messaging.

Remote Sensor Communication System 2024

C/C++, Python, UDP, MQTT, TCP, SQL, Networking

- Designed a communication system for remote sensor networks using multiple IoT protocols (UDP, TCP, MQTT).
- Implemented real-time data logging and analytics using SQL and Python; focused on scalable message handling.
- Enabled robust cross-platform data collection via socket programming and multithreading.

Certifications

- **Supervised Machine Learning: Regression and Classification**, Coursera – Stanford University, 2024
- **Advanced Learning Algorithms**, Coursera – Stanford University, 2024
- **Data Driven Astronomy**, Coursera – University of Sydney, 2024

Extracurricular Activities

District Cricket Team 2017 - 2019

- Selected at state level thrice; team captain in 2019.

Active Member – Microbus (Techno-Managerial Society) 2023 - Present