

Sanat Kumar Patra

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CAREER OBJECTIVES

Aspiring Robotics & Automation engineer with expertise in embedded systems, IoT, and machine learning, skilled in Python, Arduino, and MATLAB. Passionate about applying interdisciplinary technologies to develop innovative, data-driven engineering solutions.

ACADEMIC QUALIFICATION

Bachelor of Technology in Robotics and Automation

Brainware University (Autonomous) | Percentage: 86.88% | Year of Passing: 2026

Higher Secondary (Class XII)

Nayabasat Parbatimoyee Siksha Niketan (W.B.C.H.S.E) | Percentage: 82.00% | Year of Passing: 2022

Secondary (Class X)

Nalbona High School (W.B.B.S.E) | Percentage: 72.71% | Year of Passing: 2020

PROJECTS

• Diabetes Prediction Using Machine Learning

Aug 2025

Implemented ML models (Logistic Regression, Random Forest) using the PIMA Diabetes Dataset. Visualized feature importance to interpret model decisions.

• WIFI based home automation and weather monitoring system:

Mar 2025

Designed a home automation system with ESP32, enabling Wi-Fi-based control and real-time temperature/humidity monitoring via web/mobile interface.

• Arduino Based smart Dustbin

Nov 2023

Developed a contactless smart dustbin using Arduino Uno, ultrasonic sensor and servo motor to enhance hygiene during COVID-19.

INDUSTRIAL TRAINING AND INTERNSHIPS

Training on **Machine Learning** from **Indian Institute of Internship**

1st Jul, 2025 – 1st Aug, 2025

Duration – 1 Month

Training on **Internet of things (IOT)** from **Ardent Computech Pvt. Ltd**

21st Jan ,2025 – 21st Mar,2025

Duration – 2 Month

Value added course on “**Realization of Signal Characteristics Using MATLAB Tools**”

1st Feb ,2023- 14th Feb,2023

Duration – 2 weeks

SKILLS

- **Technical:** Python (Basic), C (Intermediate), C++ (Basic), Arduino, ESP32, Raspberry Pi, Machine Learning (Basic)
- **Design & Office Tools:** Electronic Circuit Design, KiCAD, Tinkercad, Wokwi, Microsoft Word, Excel, PowerPoint
- **Soft Skills:** Problem-solving and analytical thinking, Teamwork and collaboration, Adaptability and quick learning

LANGUAGE AND HOBBIES

- **Language** – Bengali (Native), Hindi (Fluent), English (Basic Working Knowledge)
- **Hobbies** - Watching Movie, Travelling, Playing Cricket, Listening Song