Sanat Kumar Patra

Nalbona, Nalbona, Paschim Medinipur, 721253
✉ sanatpatra37@gmail.com | ☎+91 8167416197
Profile - https://www.linkedin.com/in/sanat-kumar-patra-78b527294

CAREER OBJECTIVES

Aspiring Robotics and Automation engineer with hands-on experience in embedded systems, IoT, and machine learning. Eager to contribute innovative and data-driven solutions in real world applications, leveraging strong technical skills in Python, Arduino, and MATLAB. Seeking a challenging role to grow professionally while solving engineering problems through interdisciplinary technologies..

ACADEMIC QUALIFICATION

- **Bachelor of Technology in Robotics and Automation**
  Brainware University (Autonomous)
  Year of Passing: 2026, Percentage: 86.88%
- **Higher Secondary (Class XII)**
  Nayabasat Parbatimoyee Siksha Niketan (W.B.C.H.S.E)
  Year of Passing: 2022, Percentage: 82.00%
- **Secondary (Class X)**
  Nalbona High School (W.B.B.S.E)
  Year of Passing: 2020, Percentage: 72.71%

TECHNICAL SKILLS

- **Programming & Tools:**
  Python (Basic), C (Intermediate), C++ (Basic), Arduino IDE, Google Colab

- **Robotics & Embedded Systems:**
  Arduino | ESP32 | Raspberry Pi | ROS (Basic) | MATLAB/ Simulink (Basic)

- **Design & Simulation:**
  SolidWorks, KiCAD, Tinkercad, Wokwi

- **Control & Electronics:**
  PID Control, Sensor-Actuator Interfacing, Electronic Circuit Design

- **Data Science & Machine Learning:**
  Basic ML – Classification, Clustering, PCA, Model Evaluation
  Libraries – Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn

- **Documentation & Office Tools:**
  Microsoft Word, Excel, PowerPoint, LaTeX (Basic)

- **Soft Skills:**
  Time Management, Teamwork, Situational Awareness

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"** Organised by the Department   1st Feb ,2023- 14th Feb,2023
  Of **Electronics & Communication Engineering** of Brainware University**.**
  Duration – **2 weeks**
- Attended a industrial visit to **MSME Tool Room Kolkata**.
  Duration – **1Day**   24th Feb ,2024
- Attended a industrial visit to"**NETAJI SUBHAS CHANDRA BOSE TELECOM
   TRAINING CENTRE"** In Kalyani (BSNL).   2nd Nov, 2022
  Duration **– 1 Day**

ACADEMIC PROJECTS

- **Arduino Based smart Dustbin:**
  Developed a contactless smart dustbin using Arduino Uno, ultrasonic sensor,   Nov 2023
  and servo motor to enhance hygiene during COVID-19.
- **Voice control Wheel Chair:**
  Built a prototype wheelchair using Arduino and speech recognition module   Mar 2024
  to enable hands-free voice control for mobility-impaired users.
- **WIFI based home automation and weather monitoring system:**
  Designed a home automation system with ESP32, enabling Wi-Fi-based   Mar 2025
  control and real-time temperature/humidity monitoring via web/mobile interface.
- **Diabetes Prediction Using Machine Learning**
  Implemented ML models (Logistic Regression, Random Forest) using the   Aug 2025
  PIMA Diabetes Dataset. Performed EDA, feature scaling, and model evaluation
  with accuracy, confusion matrix, and classification report. Visualized feature
  importance to interpret model decisions.
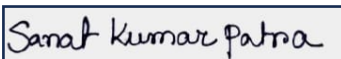
EXTRA-CURRICULAR ACTIVITIES

- Participated in a **Mission Nirmal Bangla program** organized by a club in our area   2019
- Joined as a Member of **Nalbonan Ramkrishna vivekananda Seba Sangha** in Our Village   2021

LANGUAGE AND HOBBIES

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

SELF DECLARATION

I hereby affirm that all the information that I have stated are true and correct to best of my knowledge

SIGNATURE: Sanat Kumar Patra

DATE:4th Aug, 2025