Subhajit Sen

ECE Engineering Student

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Summary

Electronics and Communication Engineering student with a strong foundation in programming and applied technology. Proficient in C, HTML, CSS, Python, and Machine Learning, with experience in hardware–software integration. Passionate about creating innovative, tech-driven solutions and continuously expanding technical expertise.

Education

Asansol Engineering College, Asansol	06/2022–06/2026
B.Tech in Electronics and Communication Engineering	CGPA: 7.00
Bankura Goenka Vidyayatan, Bankura	2021–2022
Higher Secondary Examination	Marks: 87%
Bankura Goenka Vidyayatan, Bankura	2019–2020
Secondary Examination	Marks: 87.29%

Skills

Technical Skills: C Programming, HTML & CSS, Python
Libraries: NumPy, Pandas, Matplotlib
Core Concepts: Control System, Computer Networks
Soft Skills: Communication, Time Management, Teamwork, Working under Pressure

Projects

Voice-Recognition E-Waste Robot   Repo

- Created a static AI robot from e-waste for the NAAC visit (Dec 4, 2023), combining speech-based interaction and IoT-driven motion detection.
- 3D Design: Modeled the robot's structure using Pepakura and AutoCAD.
- AI Module: Enabled bidirectional voice interaction using speech recognition and text-to-speech synthesis.
- IoT System: Integrated ultrasonic sensors with Arduino to trigger reactive head movements based on proximity.

Aspect-Based Sentiment Analysis for E-commerce Reviews   Repo

- Analyzed customer reviews from a Kaggle dataset to derive sentiment trends and support business insights.
- Applied NLP techniques including preprocessing, vectorization, and feature extraction for model input.
- Achieved strong classification accuracy using Logistic Regression and compared results with alternative models.
- Compiled findings into a detailed report highlighting key insights and model performance.

Ultrasonic Glasses for the Visually Impaired   Repo

- Developed Arduino Nano based smart glasses equipped with ultrasonic sensors for real-time obstacle detection,aiding individuals with visual impairments.
- Implemented an adaptive buzzer feedback system so that whenever it detects an object it beeps and alerts the user.
- Designed a low cost, wearable assistive device prioritizing user comfort, safety and mobility.

Courses

Data Structures using Python – Udemy

Languages

English (Native), Bengali (Native), Hindi (Native)