

# SAHASRANSU ACHARJYA

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## Objective

Aspiring Computer Science Engineer with hands-on experience in Data Science, AI/ML, robotics, and full-stack development, seeking to contribute to research-driven and product-focused engineering teams building intelligent, real-world systems.

## Education

Pursuing **B.Tech in Computer Science Engineering, BPUT Rourkela**

2022 – 2026

Pursuing **Credit-Linked Degree in Data Science, IIT Guwahati**

2025 – 2026

## Skills

**Programming:** C, C++, Java, JavaScript, Python, HTML/CSS

**Frameworks / Libraries:** Flask, Numpy, Matplotlib, Librosa, TensorFlow, Keras, Pandas, PyTorch, Scipy, Scikit-learn, pygame, pybrain, Node.js, Next.js, React

**Tools / Platforms:** Git, GitHub, Jupyter Notebook, Google Colab, VS Code, Figma, Arduino IDE

## Experience

### Research Intern

Jan 2026 – Continuing

Indian Institute of Technology, Kharagpur

- Designing a rule-based trajectory controller for a custom Bio-Mimetic Autonomous Underwater Vehicle (BAUV), enabling real-time fault detection, recovery, and autonomous mission execution in unstructured underwater environments.

### Full-Stack Web Development Intern

May 2025 – Aug 2025

ZeroCode Innovations, Remote

- Developed an invoice parsing web application using Tesseract OCR to extract structured data from scanned bills, improving recognition accuracy through OCR preprocessing and text normalization.

### IoT Intern

May 2025 – Jul 2025

MindBrain Innovations, Onsite

- Developed IoT prototypes integrating sensors and microcontrollers for real-time environmental data collection and optimized IoT data pipelines for improved system responsiveness.

### Data Analyst Intern

Jun 2024 – Aug 2024

IBM, Remote

- Analyzed large datasets using Python and SQL to extract actionable insights and created visualization dashboards to communicate findings to stakeholders.

## Projects

### Electro-Hub

github.com/SahasransuAcharjya/electro-hub

Developed an electronics e-commerce and resource website using Next.js and Node.js, ensuring scalability and enhanced user experience.

### JeevanDhara

github.com/SahasransuAcharjya/jeevandhara

Built a secure web application for blood donor and hospital management with authentication, stock tracking, reporting, and an AI chatbot.

### BillBot

github.com/SahasransuAcharjya/bill-parser

Created an invoice parsing web application using Tesseract OCR with a frontend in HTML/CSS/JavaScript and a Python backend.

### Mask Detection using CNN

github.com/SahasransuAcharjya/mask-detection-using-cnn

Implemented a CNN-based deep learning model to classify face mask compliance from images using TensorFlow.

## Achievements & Campus Involvement

- Led the **BPUT Tech Carnival** as Secretary; coordinated 140+ colleges and 2000+ participants.
- Secured **9th rank** globally in **Hack for Her** (CreateHer Fest).