

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).