SURAJIT SAHOO

Bhubaneswar,Odisha| +919932442311|surajitcoc121@gmail.com

Socials:
Github: https://github.com/Surajit00007/Surajit00007
LinkedIn: surajit-sahoo-084173335
Website: https://surajitsahoo.netlify.app/

PROFILE SUMMARY

B.Tech Computer Science student with a focus on AI & ML, passionate about solving real-world problems using technology. Experienced in building practical projects and working on end-to-end solutions. Comfortable working with data, understanding requirements, and turning ideas into working systems. Strong learner with a structured approach, good communication skills, and an interest in delivering solutions that create real impact.

EDUCATION

INSTITUTE OF TECHNICAL EDUCATION AND RESEARCH, SOA UNIVERSITY — Bhubaneswar, Odisha
Bachelor of Technology — Expected Aug 2027
In Computer Science with specialization in AI & ML.
Cumulative GPA: 8.37/10.0; (Upto 5th Sem)

VIDYASAGAR SHISHUNIKETAN — Midnapore,West Bengal
Class 12 – ISC (Science): 90.5% — March 2023
Class 10–ICSE: 92.8% — March 2021

INTERNSHIPS

INLIGNTECH — Jul 2025 – Sep 2025
Machine Learning Intern

- Developed a Spam Email Classifier using NLP and ML techniques.
- Built a Credit Card Fraud Detection system handling imbalanced datasets with methods like SMOTE and evaluating multiple ML models for high accuracy.
- Implemented a Breast Cancer Classification model to predict malignancy/benign cases using supervised learning.
- Applied an end-to-end ML pipeline including data preprocessing, feature selection, model training, and evaluation.
- Strengthened expertise in classification, imbalanced data handling, and real-world ML applications.

EXTERNSCLUB
IOT & Robotics Intern — Mar 2024 – May2024

● Gained hands-on experience with Iot sensors, basic IoT frameworks, and microcontroller-based systems. Worked with Blynk workspace for Iot applications and explored the functionality of Arduino and other microcontrollers. Assisted in developing real time monitoring and automation solutions.

ACADEMIC PROJECTS

INTELLIGENT CHATBOTDEVELOPMENT — May 2025

● Built an **intelligentconversational chatbot** using transformer models trained on **Cornell Movie Dialogs datasets**, enabling human-likeresponses through contextual understanding and self-attention mechanisms
● Fine-tuned the model for **relevance, tone consistency**, and response quality using techniques like **beam search** and **sampling**

GitHub Repository

AGRICULTURAL COMMODITY PRICE PREDICTION USING DEEP LEARNING DEC 2025

- Performed rigorous **EDA, feature engineering (lags, rolling statistics and seasonality encoding)** and achieving improved forecasting accuracy measured via **RMSE, MAE, R^2, and MAPE**.
- Worked with real **Indian agricultural market price data** (***23K+ records***) to study price trends and volatility, and prepared the data for **time-series prediction** using feature engineering techniques.
- Designed and trained a **Random Forest regression model** for commodity price prediction, achieving strong performance **($R^2 \approx 0.88$)**.
- Explored deep learning models such as **LSTM, GRU, and Transformer architectures** and analysed their limitations on short and irregular time-series data, leading to practical model selection decisions.

Github repository

CENTRALISED FILE SHARING SYSTEM WITH DHCP AND FTP SERVER JAN 2026

- Implemented a centralized file-sharing network with dynamic IP allocation using **DHCP** and secure **FTP**-based file transfer across multiple departmental subnets, connected via static routing and DHCP relay in Cisco Packet Tracer.

Github repository

PERSONAL PROJECTS

LOCAL DROP — SecureP2P File Transfer Feb 2026

- Developed **LocalDrop**, a secure peer-to-peer file transfer application enabling seamless file sharing between devices over localnetworks using **WebRTC DataChannels**, eliminating the need for cloud storage or third-party servers.
- Implemented real-time encrypted file transfer with **chunked streaming**, **progress tracking** (percentage, speed, ETA) and **bidirectional sharing** (laptop to phone and vise-versa).
- Ensured privacy-first architecture with zero file retention, direct device-to-device communication, and local-network-only operation for maximum security and performance.

GitHub Repository

AUTOMATIC ROOM LIGHT SYSTEM—IOT project Jun 2024

- Designed and implemented a **microcontroller-based automatic room light system** with a **bidirectional counter** using an **infrared sensor and Arduino Uno**, enabling lights to toggle based on human presence

- Developed the control logic using **Embedded C (Arduino IDE)**, integrated infrared relay switching, and documented the design with **flowcharts, circuit diagrams**, and operational block illustrations to ensure functionality and efficiency.

GitHub Repository

HACKATHON PROJECTS

SAHARA - AI-BASED ELDERLY HEALTH MONITORING SYSTEM MARCH 2026

- Built an **AI-driven** health monitoring webapp for elderly users with simplified step-by-step logging of vitals (BP, sugar, Hb, weight) and real-time risk scoring.
- Developed **AI Nutrition Tracker** using Gemini API to parse Indian meals (Hindi/Odia input) and generate macronutrient insights aligned with ICMR standards.
- Designed an **anaemia risk prediction model** using Hb trends and dietary intake with early warning alerts.
- Implemented **SOS emergency system** with one-tap alert, live GPS tracking, and SMS integration for family notifications.
- Created a **RAG-based multilingual AI chatbot** for personalised health guidance (Hindi/Odia/English) using user health data.

Github Repository

CERTIFICATES

GENAI JOB SIMULATION — FORAGE (BOSTON CONSULTING GROUP) DEC 2025

- Built an **AI-powered financial chatbot** using Python.
- Analyzed and interpreted data from **10-K and10-Qfinancialreports**.

GOOGLE CLOUD ARCADE TROOPER (SUMMER 2025) JUNE 2025

- Gained hands-on experience with **BigQuery,Kubernetes,**and**AI/ML**toolson**GCP**.
- Completed various **labs**, **trivia challenges**, and**skillbadges**intheGoogleCloudecosystem.

SALESFORCE AGENTBLAZER CHAMPION BADGE JUNE 2025

- Build an AI-powered agent to send **automatedbusinessemails**.
- Identify real-world use cases for intelligent agentdeployment.

ADDITIONAL

Technical Skills:
Programming Languages: Python, Java, C(Basics)
Machine Learning& AI: scikit-learn, TensorFlow, OpenCV, Numpy, Pandas
Web Development: HTML, CSS, JavaScript, WordPress, Streamlit
Embedded Systems: Arduino IDE, Embedded C
Databases & Tools: MySQL, Git, GitHub
Design: Canva, Figma, Kitle
Other Tools: Google Colab, VS Code, Jupyter Notebook

Interests : Training ML Models , Graphic design , Website making , Film making , Content Creation
Hobbies: Singing, Coding, Gaming