Sounak Sarkar

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Profiles: LeetCode | GitHub | LinkedIn

Final Year B.Tech (CSE - AIML)

EDUCATION

Future Campus School, Kolkata — AISSE CBSE Class X (Mar 2019 - Mar 2020) | Percentage: 77%
Future Campus School, Kolkata — Science Stream CBSE Class XII (Mar 2021 - Mar 2022) | Percentage: 80.4%
Dr. Sudhir Chandra Sur Institute of Technology, Kolkata — B.Tech in CSE (AIML) (Oct — Present) | CGPA: 7.7 till 6th sem

SKILLS

Programming Languages: Python, SQL
Libraries/Frameworks: NumPy, Pandas, Scikit-Learn, Matplotlib, XGBoost, Ensemble
Tools/Platforms: Git, VS Code, PyCharm, Spyder, Jupyter Notebook, Git Codespaces, Replit, API, OpenAI, Kaggle, Orchid, GitHub, Streamlit, Render
Databases: MySQL
Core Subjects: Data Structures & Algorithms, DBMS, Machine Learning, Artificial Intelligence, Object Oriented Programming
Soft Skills: Teamwork & Collaboration, Analytical Thinking, Decision-making, Fast Learner, Punctuality, Leadership

PROJECTS / OPEN-SOURCE

Breast Cancer Detection using XGBoost Classifier | Link

• Built a supervised ML pipeline on the Wisconsin Breast Cancer Dataset (malignant vs. benign).
• Optimized XGBoost (~95%+ accuracy), outperforming baseline models (ANN, SVM, Random Forest).
• Achieved high recall (~95%), prioritizing low false negatives for screening reliability.
• End-to-end preprocessing: missing values, feature selection, hyperparameter tuning.

Heart Disease Prediction using Random Forest Classifier | Link

• Trained Random Forest to predict heart disease probability from medical features.
• Performed preprocessing & feature engineering; test size 0.3; achieved 98% model accuracy.
• Conducted EDA with Matplotlib to identify key patterns and correlations.
• Built an interactive Streamlit dashboard and deployed to Streamlit Cloud.

CERTIFICATIONS

• Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate – Oracle (Issued Aug 2025)
• GenAI Powered Data Analytics Job Simulation – Tata Forage (Issued Aug 2025)