

Soumi Ghosh

Kolkata , West Bengal • ghoshsoumi562@gmail.com • (+91) 9800300908 • [linkedin.com/in/soumi-ghosh-51011b256](https://www.linkedin.com/in/soumi-ghosh-51011b256)
github.com/LichuGhosh

EDUCATION

BTECH in Computer Science Engineering - Data Science

Techno Main Salt Lake

Sep 2021 - Jun 2025

GPA: 7.97

10th & 12th

Daspur Vivekananda High School

Jan 2013 - Jun 2021

GPA: 10th - 94.85 %, 12th - 90 %

WORK EXPERIENCE

Machine Learning Intern

Aug 2023 - Nov 2023

Feynn Labs

India

- Implemented a Decision Tree classification model to predict diabetes, achieving a 20% increase in accuracy to 92%.
- Reduced false positives by 30%, saving significant healthcare resources.
- Supported decision-making for 15+ stakeholders, improving diabetes management.
- Presented findings and recommendations to stakeholders through detailed reports and visualizations.
- Analyzed market segments and EV market trends.
- Developed a web app for diabetes checking, enhancing prediction accuracy through advanced ML models and data analysis techniques.

Data Science Intern

Jul 2023 - Sep 2023

CipherByte Technologies

India

- Engineered and implemented advanced data models that analyzed customer behavior patterns.
- Enhanced targeted marketing strategies, increasing campaign effectiveness by 40% and customer engagement by 15%.
- Assisted in the deployment and integration of advanced machine learning algorithms across multiple projects.

PROJECTS

Diabetes Predictor [↗](#)

Developed a diabetes prediction web application using a Decision Tree classifier achieving 92% accuracy. Optimized the model using techniques like feature scaling and handling class imbalance. Designed an intuitive web interface with HTML, CSS, and Flask to collect user inputs for key health metrics. Deployed the application for easy accessibility. The model effectively predicts diabetes risk, empowering users to make informed healthcare decisions.

Breast Cancer Detection [↗](#)

Breast Cancer Detection Employed 20 features and calculated feature importance using Gini importance. Attained 98.2% accuracy with RandomForest, 97.36% with XGBoost, and 98.6% with SVM. Enhanced accuracy to 99.12% using SMOTE.

EV Market_Segment_Analysis [↗](#)

Identified Maharashtra as the leading state with 35,000+ EVs and 300+ charging points. Conducted data analysis and EDA.

SKILLS

Technical Skills: C, C++, Python, Java, SQL, Machine Learning, Deep Learning, Big Data, AI, DBMS, Data Mining

Soft Skills: Teamwork, Management, Communication, Leadership

Tools & Framework: MongoDB, Github, Scikit-learn, NetBeans, Java

CERTIFICATIONS

Journey to Cloud: Envisioning Your Solution [↗](#) by IBM

May 2024

AWARDS

GeeksforGeeks

Solve more than 300 problems ,Streak: 380/1083

<https://www.geeksforgeeks.org/user/ghoshsorqeq/>

LeetCode

Solve more than 500 problems on, Contest Rating 1453

https://leetcode.com/u/Soumi_Ghosh2003/

Smart India Hackathon

secured 1st position in College Level

Led a team project to create a sentiment analysis tool from textual data, involving data scraping from Twitter and developing a model using Twitter RoBERTa and tokenizers.

PUBLICATIONS

Towards Classifying Bird Sounds Using a Deep Transfer Learning Model on ICDMAI'2025 (Under Publish Procedure)

Engineered a VGG-16-based CNN model with 97.31% accuracy for bird sound classification, advancing biodiversity conservation efforts.