

Sukdeb Mondal

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Howrah, West Bengal, India

About Me

I am a third-year student at Ramakrishna Mission Vidyamandira. I focus on my studies while also learning new technologies. I am interested in improving my skills through projects, internships, and research. Apart from academics, I enjoy playing the Esraj, a classical musical instrument.

Research Interests

I am interested in **medical healthcare applications of Machine Learning**. I have completed work on **Cesarean Section Classification** using models like KNN, Logistic Regression, SVM, AdaBoost, and Bagging, with a focus on **explainability through LIME**.

Education

B.Sc. (Hons.) in Computer Science 2023 – Present
Ramakrishna Mission Vidyamandira, Belur Math, Howrah
Current CGPA: 7.68 / 10

Higher Secondary (Class XII) 2021 – 2023
Dubrajpur Sree Sree Sarada Vidyapith, Dubrajpur, Birbhum
West Bengal Council of Higher Secondary Education (WBCHSE)
Subjects: Mathematics, Physics, Chemistry, Computer Science
Percentage: 74.8%

Secondary (Class X) 2020 – 2021
Dubrajpur Sree Sree Sarada Vidyapith, Dubrajpur, Birbhum
West Bengal Board of Secondary Education (WBBSE)
Percentage: 84%

Technical Skills

- **Programming:** C, Python, HTML, CSS, JavaScript, GSAP, Data Structures & Algorithms (DSA), Shell Scripting
- **Databases:** SQL
- **Libraries & Tools:** NumPy, Pandas, Git, Google Colab, Jupyter Notebook, LaTeX
- **Machine Learning & XAI (Basics):** Scikit-learn, Introduction to ML, LIME for Explainability

Projects

Cesarean Section Classification using ML with LIME Explainability

- Developed a predictive model for cesarean section outcomes with **97.5% accuracy**.
- Applied **LIME** for explainability to enhance trust in predictions.
- *Technologies & Platforms:* Python, NumPy, Pandas, Matplotlib, scikit-learn, LIME, Google Colab.

Research & Publications

- *Cesarean Section Classification using Machine Learning with LIME Explainability.* Accepted for presentation at the **International Conference on Information Systems and Computer Networks (ISCON 2025)**, GLA University, Mathura.

Internship

Intern University of Engineering & Management, Jaipur May 2025 – June 2025

- Worked on **ML models** for healthcare prediction tasks.
- Applied **LIME** for explainability and improved interpretability of results.

Certifications

- **Internship Certificate** – University of Engineering & Management, Jaipur Completed research internship in Machine Learning and Explainable AI (LIME) Certificate
- Presentation Certificate (ISCON 2025) for presenting the paper "*Caesarean Section Prediction Using Machine Learning with LIME Explainability*" at the 7th International Conference on Information Systems and Computer Networks (ISCON-2025), GLA University, Mathura, India, September 2025. Certificate
- Artificial Intelligence Foundations: Machine Learning – Linkedin Learning Certificate
- Supervised Machine Learning: Regression and Classification – Coursera Certificate
- Introduction to Artifical Intelligence (2023) – Linkedin Learning Certificate
- HTML Certification Test – KG Coding (YouTube Course) Certificate