

# Debjyoti Roy

Linkedin github

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## EDUCATION

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- **Indian Institute of Information Technology Lucknow** Lucknow, India  
*Bachelor of Technology in Information Technology; CGPA: 8.41* Aug. 2020 - Present
- **Taltala High School, Kolkata** kolkata, India  
*Intermediate; Percentage: 84.2 (421/500)* Apr. 2018 – Mar. 2019
- **Adarsh Shiksha Niketan, Kolkata** Kolkata, India  
*High School; Percentage: 86.1 (603/700)* Apr. 2016 – Mar. 2017

## PROJECTS

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- **Twitter Sentiment Analysis:** (Code link)
  - : Technology: Logistic Regression, Naive Bayes, NLP and SVM
  - : Project Abstract: Keep track of what's being said about any product or service on social media and useful in understanding the opinion of the people about a variety of topics.
- **Incorporating Thread Synchronization in Real Life (Road Construction)::** (Code link)
  - : Technology:C++, Synchronization, Threads, Semaphores.
  - : Description: Models a common roadway occurrence, where a lane is closed and a flag person is directing traffic. In this project, I demonstrated how the Deadlock issue happens as a result of traffic on the road and how we might avoid it.
- **River Water Quality Prediction App :** (Code link)
  - : Technology: Flutter, ML, Python, Artificial Neural Networks, Decision Trees, Support Vector Machines
  - : Description: This project aims to predict river water quality (pH, dissolved oxygen, etc.) using machine learning. It includes literature review, data preprocessing, feature selection, and evaluation with Mean Absolute Error, Root Mean Squared Error, and coefficient of determination. An automated system will aid water quality management and policy making.

## ACHIEVEMENTS

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- : Solved around **800** problems from various coding platforms like **CodeChef**, **Codeforces**, **LeetCode**, **GFG**, **Interviewbit**, **CodeStudio**.
- : **Global Rank 1 in Codechef starters 91 (div 4)**
- : **Global rank 43 in Codechef starters 96 (div 2)**
- : **Global rank 476 in Codeforces round 891 (div 3)**
- : **Global rank 104 in Codeforces round 871 (div 4)**
- : Expert at Codeforces and 5 star at CodeChef.

## PROGRAMMING SKILLS

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- \* **Languages:** C, C++, CSS, HTML, Javascript, Python
- \* **Development Tools:** VS Code, Git/Github
- \* **Area of Interest:** Problem-Solving, DSA, Front End Web Development
- \* **Academic Coursework:** Data Structure and Algorithm, Object-oriented programming/design, Database Management System, Operating System, Computer Networks, Compiler Design.