

# Rahul Deb Majumder

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## EDUCATION

### Indian Institute of Information Technology Allahabad

*Master of Technology*

- GPA: 7.04 / 10

Prayagraj, UP

August 2022 – May 2024

### Bankura Unnayani Institute of Engineering

*Bachelor of Technology*

- GPA: 7.93 / 10

Bankura, West Bengal

August 2017 – June 2021

## PROFESSIONAL EXPERIENCE

### Undergraduate Teaching Assistant

*Indian Institute of Information Technology*

- **Impact:** Improved **Data Structures and Algorithms** scores by 15% and **Database Management System** performance by 5% compared to other sections, through tutoring and practical sessions.

August 2022 – Present

Prayagraj, UP

## PROJECTS

### PHISHING-WEBSITE-DETECTION (GitHub)

- Pioneered URL detection by **fusing classical indices with Decision Tree, Random Forest, XGBoost,SVM**, achieving an impressive accuracy of 86.6%.
- Enhanced URL detection accuracy from **80.2% to 86.6%** with upervised and unsupervised learning techniques.

**Tech-Stack :** Decision Tree, Random Forest, XGBoost,SVM,classification,regression,upervised and unsupervised learning,numpy,pandas,kaggle,upyer notebook

### Campus Qna Web App (GitHub)

- Spearheaded the development of a collaborative learning web application using **the MERN stack**.
- Implemented user-friendly features, resulting in **increased user engagement**.
- Collaborated with a team, delivering the Web Development project ahead of schedule.

**Tech-Stack :** MERN (MongoDB, ExpressJS, ReactJS,NodeJS), HTML, CSS, JavaScript.

### A Fuzzy Logic Based Hierarchical Routing Protocol for Wireless Sensor Networks (GitHub)

- Designed and implemented a hierarchical routing protocol for Wireless Sensor Networks using Fuzzy Logic, **reducing energy consumption by 30%**.
- Addressed critical challenges in wireless sensor networks, **achieving a 20% improvement in network scalability**.
- Utilized fuzzy logic principles to optimize routing decisions, **resulting in a 15% enhancement in network performance**.

**Tech-Stack :** Fuzzy Logic, Artificial intelligence,Wireless Sensor Networks, Matlab, k-means, Clustering.

## TECHNICAL SKILLS

### Languages

- Proficient: C++, C.
- Familiar: SQL, Python, JavaScript, NoSQL

**Tools** : VS Code, Google Collab, Dev C++,Jupyter notebook , Git, Github , AWS.

**Technologies:** : MongoDB, Rest API, Data Warehousing, Business Intelligence(BI), Data Analysis, UI/UX

**Soft Skills:** : Effective communication, collaboration with cross-functional teams, Time management.

**Courses** :Data Structure and Algorithm, OOP, OOD, DBMS, OS,Machine Learning,Computer Network.

## ACHIEVEMENTS

- Ranked **5364 out of 142000 participants** in Round 2 of CodeKAZE 2023 competition.
- Accomplished solving over **700 DSA** questions across various coding platforms **within 1 year**.
- President of college in **third year of B.Tech** (2019-20).
- As President of SFI, Thakurnagar Block, achieved a **20% boost in student engagement** and community involvement.
- Awarded the prestigious **NMMS Scholarship for 4 consecutive years** in recognition of academic excellence.