

Abitatha Roy

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Headline

Enthusiastic sophomore with a background in Engineering Mathematics, Programming, Operating Systems and Computer Architecture. Exploring Quantum Computing, UI/UX, Data Science and Bioinformatics, and looking forward to learning and applying my knowledge in a research-driven environment.

Education

University of Delhi, B.Tech. in Information Technology and Mathematical Innovations Aug 2023 – Jul 2027

- **Percentage:** 85.5%
- **Coursework:** Mathematics, Programming, Data Structures, Algorithms, Computer Architecture, Operating Systems

Calcutta Public School, Kalikapur, Indian School Certificate (ISC) April 2008 – May 2023

- **Percentage:** 97.0%
- **Coursework:** English, Bengali, Physics, Chemistry, Mathematics, Computer Science

Experience

Research Intern, Beyond Chats – Delhi, India Jan 2024 – Mar 2024

- Conducted market research and SWOT analysis on the company's AI chat bot and on competitor companies through user feedback
- Analyzed the company's chat bot responses for 6 brands, identifying and reporting hallucinations and other anomalies to the concerned teams, contributing to enhanced user experience.

Community Manager Intern, Beyond Exams – Delhi, India Oct 2023 – Jan 2024

- Managed, moderated and engaged with over 10 online student communities associated with the company belonging to partner institutions, trial batches and cohorts.
- Assisted faculty in conducting trial and cohort classes.
- Monitored student progress regularly and solved queries, improving their overall learning experience and increasing conversion of trial students and retention of cohorts.

Projects

Two-Compartment Model to Simulate the Flow of Water in a Crop Crop-Water-Simulator Repository

- Combined a theoretical framework with field data to simulate the movement of water in a single-crop system.
- **Concepts Used:** Mathematica, Ordinary Differential Equations

Certifications

Data Science Methodology, Coursera Feb 2025

Quantum Computing and Post-Quantum Cryptography, Delhi University Feb 2025

Google Prompting Essentials, Coursera Jan 2025

Tools for Data Science, Coursera Jan 2025

Goldman Sachs - Operations Job Simulation, Forage Dec 2024

SAP USA - Technical Consulting Job Simulation, Forage Dec 2024

Data Structures and Algorithms using Java, NPTEL Nov 2024

Fundamentals of UI/UX Design, Microsoft Nov 2024

Calculus of Several Real Variables, NPTEL

Oct 2024

What is Data Science?, IBM

Oct 2024

Technical Communication for Engineers, NPTEL

Sep 2024

Skills

Algorithms, Computer Systems Architecture, Data Analysis, Data Structures, Engineering Mathematics, Operating Systems, Prompt Engineering, Technical Communication

Programming: C, Java, Mathematica, Python, R, SQL

Soft Skills: Attention to Detail, Communication, Cross-functional Collaborations, Ethical, Positive Attitude, Problem Solving, Punctual, Time Management

Languages: Bengali, English, Hindi