



Roshni De

B.Tech M.Tech Dual
in Computational Mathematics
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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
B.Tech	National Institute of Technology, Agartala	8.61 (Till 4th Sem)	2021-2025
Senior Secondary	Hindi Higher Secondary School (CBSE)	90.8%	2021
Secondary	Holy Cross School (ICSE)	94.8%	2019

EXPERIENCE

I am a highly motivated IT undergraduate with over 2 years of coding experience, and I am eager to work on both computational and experimental projects. I possess strong programming and debugging skills and have a solid understanding of mathematical modelling, which I consider valuable assets for this role. In my responsibilities, I will read and implement research papers, perform literature reviews related to my assigned project, analyze data, conduct experiments, and actively contribute to research publications in top-tier journals and conferences.

PERSONAL PROJECTS

- **Exposys Data Labs** Nov 2022 - Dec 2022
Project description: To prepare an ML model that can predict a company's profit value. **GitHub**
 - Tools & technologies used: Python (Use of libraries like Seaborn, Matplotlib etc. The code is uploaded on GitHub with the name CODE and report as REPORT.
 - Description: The target is to prepare an ML model which can predict the profit value of a company if the value of its R&D Spend, Administration Cost and Marketing spending are given. (1 month online internship)
- **Stock Prediction Website** ONGOING
 - Tools & technologies used: Python (Use of libraries like Scikit-Learn, TensorFlow, Pandas, Matplotlib, Plotly, Seaborn....), Yahoo Finance API ,HTML, CSS, and JavaScript etc.
 - Description: The project aims to develop a machine-learning model for predicting stock prices and presenting the predictions in a user-friendly manner. I plan to create an ML model that leverages historical stock data and relevant features to make predictions about future stock prices. Additionally, I intend to build a custom website to visualize these predictions graphically, allowing users to interact with and interpret the forecasted stock price trends. This project combines the power of machine learning with web development to provide a valuable tool for stock market enthusiasts and investors..
- **Personal Portfolio Website** Feb 2023 - Present
GitHub
 - A personal portfolio created using only HTML, CSS and JavaScript.
 - * Tools & technologies used: HTML, CSS, JavaScript
 - * Description: A personal portfolio which includes all the achievements and certifications along with mini projects.
- **A Library Management System in C** Oct 2022 - Nov 2022
GitHub
 - Built a Library Management System using File Handling in C. Uploaded on GitHub with the name Libproject

TECHNICAL SKILLS

- **Programming Languages and Skills:** C,C++, Python, Data Structure and Algorithms, Basics of DBMS (PostgreSQL Database Management), Neural Networks, PHP, HTML5, CSS
- **Soft Skills:** Problem-Solving, Interpersonal Communication, Time management, Problem Analysis, Continuous Process, Language Teaching, Critical Thinking

KEY COURSES TAKEN

- **CSE & Mathematics (College):** Data Structure and Algorithm(Theory and Lab), C, Python, C++, MATLAB, Computer Organization and Architecture, Soft Computing, Financial Mathematics, Statistical Inference, Probability and Statistics, LPP and Game Theory, Discrete Mathematics and Fuzzy Set Theory, Numerical Analysis, Introduction to Algebra, Differential Equations.

ACHIEVEMENTS

- **RMO (Regional Mathematical Olympiad)**, Achieved 26th position and was eligible for INMO (Indian National Mathematical Olympiad) 2017
- **IMO (International Mathematics Olympiad :)**, Secured 3rd Position 2017
- **LeetCode**: ,60+ Problems Solved
- **HackerRank**: ,C++(5 Star), Python(3 star)
- **Selected as GSSoC'23 (GirlScript Summer of Code) Contributor :**, Selected as a contributor for three months.

POSITIONS OF RESPONSIBILITY

- **Core member of NITA Fiction Club**,NLC Club, NIT Agartala
 - **Financial Head of Physicus**,Physics Club, NIT Agartala
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