



Rudraneel Bhattacharyya

Electronics and Communication Engineering
Bachelor of Technology
National Institute of Technology, Agartala

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GitHub

LinkedIn

EDUCATION

- **National Institute of Technology, Agartala** 2022 - 2026
Bachelor of Technology in Electronics and Communication Engineering CGPA: 8.40
- **Don Bosco School, Agartala** 2020 - 2021
Central Board of Secondary Education: Senior Secondary (XII) Percentage: 88.83%
- **Don Bosco School, Agartala** 2018 - 2019
Central Board of Secondary Education: Secondary (X) Percentage: 94%

EXPERIENCE

- **MBB Airport | Airports Authority of India** [🔗](#) May 2025 - June 2025
Summer Trainee Agartala
 - Completed internship at **Communication Navigation Surveillance** department, working with navigation aids like **Instrument Landing System, Automatic Dependent Surveillance-Broadcast**, etc. Gained hands-on experience in **analog/digital radio, amplitude modulation**, and VHF/UHF communication applied in air traffic operations.

PERSONAL PROJECTS

- **Peer-to-Peer TCP Chat App** [🔗](#)
Real-time peer-to-peer chat app using Python TCP sockets and multithreading.
 - Developed a terminal-based chat application enabling two-way real-time communication over LAN using **Python's TCP sockets**.
 - Implemented **multi-threading** to allow simultaneous sending and receiving of messages without blocking.
 - Simulated **client-server communication model** and demonstrated understanding of networking fundamentals like IP addressing and port binding.
 - **Tools and Technologies used:** Python, Socket Programming, TCP/IP, Threading, GitHub.

- **Multi-Robot Warehouse Automation Simulator** [🔗](#)

Python-based simulation of autonomous robots performing parcel pickup, routing, and delivery.

- Developed a Python-based multi-robot warehouse automation simulator featuring A* pathfinding and dynamic task allocation.
- Simulated autonomous parcel pickup and delivery with collision avoidance and real-time route replanning.
- Modeled core principles of robotic coordination and warehouse logistics used in modern automation systems.
- **Tools and Technologies used:** Python, Matplotlib, Dynamic Task Allocation, GitHub.

TECHNICAL SKILLS AND INTERESTS

Core Electronics: Analog & Digital Communication, Computer Networking, Microprocessors and Microcontrollers

Languages: C, C++, Python (Basics)

Analytical: Problem-Solving, Data-Driven Decision Making, Critical Thinking

Tools: MATLAB, VS Code, Git, GitHub

ACHIEVEMENTS

- Solved 475+ questions on **GeeksforGeeks** with a rating of **3 star**. [🔗](#)
- Solved 250+ questions on **LeetCode** with a peak rating of **1583**. [🔗](#)
- Certified in **Embedded Systems** by NIELIT Calicut. [🔗](#)
- Selected for **McKinsey Forward Program**, focused on leadership, assessment skills, and digital adaptability. [🔗](#)

POSITIONS OF RESPONSIBILITY

- **Technical Content Writer**, GeeksforGeeks May 2024 - Mar 2025
- **Managed Network Expert**, Chegg Inc. [🔗](#) Aug 2023 - Aug 2024