



# Rudrajeet Pal

Roll No.:250123054

B.Tech - Mathematics and Computing

Minor in Data Science and AI

Indian Institute Of Technology, Guwahati

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. Major	Indian Institute of Technology, Guwahati	9.60 (Current)	2025-Present
B.Tech. Minor	Indian Institute of Technology, Guwahati	8.0 (Current)	2025-Present
Senior Secondary	B.D. Jain Modern School, CBSE Board	97.2%	2025
Secondary	St. Mary's High School, ICSE Board	98.4%	2023

## PROJECTS

- Reflecta** April 2023 - May. 2025  
*Physics/Optics Simulation* Preview Link  
 – Simple and robust sandbox-type program written in JavaScript to simulate light rays reflecting and refracting  
 – Uses polyly for rendering, a fast and dynamic WebGL 2D primitives renderer written by me specifically for this project.
- SPICMACAY Landing Page** Nov. 2025 - Jan. 2026  
*SPICMACAY IIT Guwahati* Preview Link  
 – Built a landing page using React showcasing the club and providing details and media for all the past events.  
 – Created a feedback form implementing Formspreet API.
- Velora Route Optimization** Jan. 2026 - March. 2026  
*Kriti 2026, IIT Guwahati* Preview Link  
 – Developed a web-app using Next.js and Tailwind for a Route Optimization Project.  
 – Utilized OpenStreetMap and Leaflet for displaying maps and OSRM API for routing.
- NFT-Ticketing DApp** Jan. 2026 - March. 2026  
*Blockchain based Decentralized Web3 App* Preview Link  
 – A decentralized ticketing system where users can mint NFTs (ERC-721) and list, buy, and manage tickets through a marketplace smart contract.  
 – Smart Contracts written in Solidity and tested in HardHat and Ignition.  
 – Used Next.js, Tailwind and ShadCN for frontend as well as ethers.js for connecting with Blockchain Wallet.

## TECHNICAL SKILLS

- Programming:** C/C++, HTML/CSS/JavaScript, Python, Rust, Java\*, Solidity\*
- Database Management Systems:** MongoDB, MySQL, Redis
- Tools/Frameworks:** React, Svelte, Tailwind, three.js, Hardhat, Open/WebGL, Godot, Flutter\*
- Media/Content Creation:** Davinci Resolve, FL Studio, Audacity, Blender\*
- Operating Systems:** MacOS, Windows, Linux \* Elementary proficiency

## KEY COURSES TAKEN

- Mathematics:** Linear Algebra, Single and Multivariable Calculus, Probability & Random Processes, Complex Analysis
- Physics:** Classical Mechanics, Introductory Electromagnetics, Modern Physics, Electric (Digital Analog) Circuits
- Computing:** Programming and Data Structures in C, Introduction to Data Science (in R)

## ACHIEVEMENTS

- School Topper**, Class XII CBSE 2025
- JEE Advanced**, ,secured All India Rank 1159 2025
- JEE Mains**, ,secured 99.88 percentile among 14 million candidates. 2025
- Second Place – Tabla (7th Year Examination)**, Bangiya Sangeet Parishad – Sangeet Bivakar 2024