Aniruddha Bhattacharjee

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EDUCATION

VIT Bhopal University, Sehore, Madhya Pradesh   **2022 - 2026**
*B.Tech - Computer Science and Engineering - **CGPA - 8.8/10***

De Nobili School CMRI, Dhanbad, Jharkhand
*ICSE Class-X - **96%***   **2019**
*ISC Class-XII - **89%***   **2021**

TECHNICAL SKILLS

- **LANGUAGES**: C++, C, Java, JavaScript, MySQL, MongoDB, SQLite, Python, MATLAB
- **TECHNOLOGIES/FRAMEWORKS**: HTML5, CSS3, React, Node, Express
- **DEVELOPER TOOLS**: VS Code, Postman, Git, Github, IntelliJ, Android Studio, Keil, Proteus, Arduino IDE, Canva
- **CONCEPTS**: Data Structures, Algorithms, DBMS, Object Oriented Programming, Asynchronous Programming

PROJECT EXPERIENCE

CAB BOOKING APP
Technologies/Tools: HTML, CSS, JS, React, Node, Express, Google Maps API, JWT, MongoDB, Mongoose
- Built a web app that lets users **book rides**, track drivers in **real-time**, and view routes using the **Google Maps API**.
- Implemented **role-based access** with separate **Captain** and **User** logins, connecting frontend and backend via **REST APIs**.
- Handled **ride data, user sessions**, and **location services** using a scalable **MERN stack** architecture.

INFORMATION THEORY IN NEUROSCIENCE
Technologies/Tools: MATLAB, Neuroscience Information Theory Toolbox, Statistics and Machine Learning Toolbox.
- Applied **machine learning** and **information theory** to understand **neural information processing** and improve the robustness of existing **neuroscience models**.
- Implemented **Izhikevich neuron models** to simulate neural activity. and analyzed neuron interactions using **mutual information, transfer entropy,** and **partial information decomposition.**

E VOTING WEB APPLICATION
Technologies/Tools: HTML, CSS, JS, Node, Express, JWT, MongoDB, Mongoose
- Developed a full-stack **E-Voting** web app with **CRUD operations** to manage user registration, authentication, and voting data using **MongoDB**.
- Implemented **Aadhaar-based login** with **JWT authentication** and secured user sessions.
- Connected frontend and backend using **RESTful APIs** for seamless data handling.

CERTIFICATIONS

- The Complete Full-Stack Web Development Bootcamp (Angela Yu) - Udemy
- Full Stack Development (MERN) with MongoDB - SmartBridge
- Cloud Computing - NPTEL
- The Bits and Bytes of Computer Networking - Coursera
- MATLAB Onramp - MATLAB

CODING PLATFORMS

- **Leetcode**: Solved 16 problems, enhancing algorithmic thinking and problem-solving skills.
- **GeeksforGeeks**: Completed 6 problems on foundational concepts in data structures and algorithms.
- **Codeforces**: Current rating of 341, actively participating in contests to improve competitive programming expertise.
- **Hackerrank**: Solved fundamental programming challenges, strengthening core concepts.

ADDITIONALS

INDUSTRIAL VISITS AND EXPERIENTIAL LEARNING   **Sept 2024 - Oct 2024**
Organized by **VIT Bhopal University**
Participated in workshops and seminars with leading organizations such as ISRO NRSC, L&T Metro Rail, BSNL - RTTC, IKP Knowledge Park, and Auto Cluster Development Institute. Gained insights into automation, IoT integration, AI/ML, e-mobility, telecommunications, network infrastructure, satellite technology, remote sensing, and biotechnology AI innovations.

HOBBIES: Diving deep into computer science concepts, solving DSA problems, playing chess, and solving the Rubik's cube.

LANGUAGES: English, Hindi, Bengali