

Aniruddha Bhattacharjee

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EDUCATION

VIT Bhopal University, Sehore, Madhya Pradesh

2022 - 2026

B.Tech - Computer Science and Engineering - CGPA - 8.94/10

De Nobili School CMRI, Dhanbad, Jharkhand

ICSE Class-X - 96%

2019

ISC Class-XII - 89%

2021

TECHNICAL SKILLS

- **LANGUAGES:** C++, C, Java, JavaScript, MySQL, SQLite, Python, MATLAB
- **TECHNOLOGIES/Frameworks:** HTML5, CSS3, Android SDK, Groovy DSL, Open-Source Tools
- **DEVELOPER TOOLS:** VS Code, Git, Github, IntelliJ, Android Studio, Keil, Proteus, Arduino IDE, Canva
- **CONCEPTS:** Data Structures, Algorithms, DBMS, Object Oriented Programming, Multithreaded Programming, Microcontroller/Microprocessor Systems, Arduino Uno Programming

PROJECT EXPERIENCE

COLLEGE PHONEBOOK APP

Technologies/Tools: Java, Android Studio, SQLite, XML

- Developed an **Android app** in **Java** for managing contact information with fields for name and phone number, using **SQLite** for performing **CRUD operations** (Create, Read, Update, Delete).
- Ensured **data persistence** across app sessions by integrating **SQLite** to store and retrieve contact details efficiently.

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**.

FIRE ALERT SYSTEM

Technologies/Tools: Embedded C, Atmel AT89C51, Keil IDE, Proteus, Flame Sensor, Buzzer, LCD Display.

- Designed and implemented a **fire detection and alert system** using the **Atmel AT89C51 microcontroller**, **flame sensor library**, **buzzer**, and **LCD display** to provide real-time fire alerts for safety-critical applications.
- Developed, debugged, and tested the system using **Keil IDE**, with functionality simulated and validated in **Proteus Design Suite**.
- Wrote efficient **Embedded C** code for **microcontroller programming**, **sensor integration**, and **automated alert mechanisms**, ensuring accurate and reliable operation.

CERTIFICATIONS

- Cloud Computing - [NPTEL](#)
- The Bits and Bytes of Computer Networking - [Coursera](#)
- MATLAB Onramp - [MATLAB](#)
- Simulink 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