

# Subhrajit Chakrabarti

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## Education

### VIT Bhopal University

Bachelor of Technology in Computer Science, India

CGPA: 7.81

Bhopal, Madhya Pradesh

2022–2026

### New Horizon Scholars' School

Senior Secondary (Class 12), CBSE

Percentage: 62.2%

Thane, Maharashtra

2020–2022

### Ramakrishna Mission Vidyapith

Secondary (Class 10), CBSE

Percentage: 92.2%

Deoghar, Jharkhand

2015–2020

## Projects

### Password Protection using Hashing and Salting:

The objective was to improve the security of user authentication for enterprise applications. The system collected user passwords, applied a custom salt and used **SHA-256** and **MD5** algorithms to hash them before storing them in a secure relational database. These securely hashed passwords were then stored using **SQL** in a relational database. I was responsible for developing the backend architecture and ensuring robust database interactions.

### Medical Emergency Website:

Designed to securely store critical medical data for patients, enabling hospitals to access essential information instantly during emergencies. This reduced treatment delays by eliminating the need for manual data entry. I handled back-end development using **MongoDB**, ensuring secure storage and real-time availability of user data.

### TerraTech–Price and Yield Prediction Model:

Utilized machine learning to forecast future crop prices based on historical agricultural datasets. I managed back-end operations using **PostgreSQL** for structured data handling and developed the front-end using **HTML** and **CSS**. This project helped bridge data analytics with actionable insights for farmers and agricultural stakeholders.

## Technical Skills

**Programming:** Java, C++, Python

**Web Development:** HTML, CSS, JavaScript

**Databases:** MySQL, MongoDB, PostgreSQL

## Courses

**2023:** Python Essentials on Vityarthi

**2024:** The Bits and Bytes of Computer Networking

**2025:** MongoDB Database Admin Path (Self-Managed)

## Achievement

- Completed 100 Days of DSA Challenge
- Solved 200+ DSA problems