Subhrajit Chakrabarti

📞 +91 9321934166 • ✉ subhrajitrs45@gmail.com • in subhrajit-chakrabarti

Education

VIT Bhopal University   **Bhopal, Madhya Pradesh**
B.Tech Computer Science Engineering   *2022–2026*
CGPA: 7.97

Ramakrishna Mission Vidyapith   **Deoghar, Jharkhand**
Secondary (Class 10), CBSE   *2015–2020*
Percentage: 92.2%

Projects

Password Protection using Hashing and Salting:
- Strengthens password security using a hybrid salting and hashing technique with the **Bcrypt** algorithm.
- Ensures user credentials are securely stored in a **MongoDB** database without plaintext exposure.
- Protects against common attacks like brute-force and rainbow table attacks.
- Features user-friendly registration and login interfaces built with **React** and **Bootstrap**.
- Emphasizes both security and usability while maintaining data protection compliance.

Med-Alert Response:
- A full-stack healthcare platform designed to improve access and communication in rural and underserved regions.
- Enables secure sharing of patient information among healthcare providers and automates notifications during emergencies.
- Supports telemedicine and comprehensive health record management for better continuity of care.
- Built with a microservices architecture using **React**, **Node.js**, and **MongoDB**.
- Emphasizes robust data security, user privacy, and interoperability to enhance patient outcomes.

TerraTech–Price and Yield Prediction Model:
- A machine learning-based system for forecasting agricultural commodity prices.
- Utilizes a hybrid AI model (**LSTM** + **XGBoost**) for accurate predictions.
- Aims to help farmers, traders, and policymakers make informed, data-driven decisions.
- Designed and managed the core **PostgreSQL** database for rice price data, ensuring scalability and integrity.
- Integrated the database with the ML models and frontend to enable real-time forecasting and a seamless user experience.

Technical Skills

Programming: Java,Python,C++
Web Development: HTML,CSS,JavaScript
Databases: MySQL,MongoDB,PostgreSQL

Courses

2025: MongoDB Database Admin Path (Self-Managed)
2025: Cyber Security Analyst

Achievement

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