

PRATIM DAS

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EDUCATION

- **Meghnad Saha Institute of Technology.**

Master of Computer Applications (CGPA:7.64)

Coursework: DSA, JAVA OOPs, RDBMS, Computer Architecture, Operating System, Networking, Cybersecurity, Software Engineering, AI/ML, Data Science.

- **Maulana Abul Kalam Azad University Of Technology.**

Bachelors in Computer Applications (CGPA:8.75)

Coursework: OOPs, Data Structure, Discrete Mathematics, DBMS, Web Development, Cyber Security.

SKILLS

Programming Languages : PYTHON, JAVA, JAVASCRIPT.

Other : SQL, HTML, CSS.

PROJECTS

- **Smart Bike Automation System:**

It is an IoT-enabled smart bike system designed to automate and secure two-wheeler control through a mobile application and fingerprint authentication.

With knowledge of **Flutter, IoT, Circuit Design, Robotics Concepts, and Embedded Systems**, we developed this project to enhance rider safety, automation, and real-time monitoring.

Key Highlights :

- Developed a Flutter-based Android app to control **ignition, self-start, and headlights** remotely via Wi-Fi.
- Implemented **live speed tracking and speed alert** system using mobile GPS. The app continuously monitors real-time speed and notifies the user if they exceed a set limit.
- Logged **Travel History, Over-speeding Events, and Rash Driving Incidents** using phone sensors and GPS at regular intervals.
- Built an **Emergency Alert System** that detects accidents via mobile sensors and sends SMS alerts to emergency contacts.

- **Online Music Gallery:**

Developed a full-stack online music streaming platform that allows users to sign up, publish their own songs, listen to tracks from other artists, search for songs, and create personalized playlists.

Authentication: Secure signup/login with JWT, bcrypt hashing, and role-based access.

Music Upload and Storage: Used Multer for uploads and Cloudinary for audio storage.

Streaming: Enabled real-time playback with Node.js, Express, and MongoDB GridFS.

Search: Optimized song discovery with MongoDB indexing and aggregation.

Playlists: Built playlist management with MongoDB storage and Redux state handling.

Technology used: React, Node.js, Express, MongoDB.

CERTIFICATIONS

- **Artificial Intelligence - Cognizant**

Covered EDA, data modeling, ML model building, deployment and QA.

VOLUNTEER EXPERIENCE

- **Project Mentor – Eminent College of Management and Technology**

- Guided student groups on academic projects.
- Conducted sessions on Game Development fundamentals and learning road map.