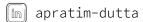
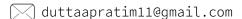
# **Apratim** Dutta



apratim.tech









## **EXPERIENCE**

**SITEMASTER** | SOFTWARE DEVELOPMENT ENGINEER INTERN

Feb 2024 - Current | Kolkata, India

- → Developed an Android application using React Native, enhancing mobile user experience for 500+ MAU (Monthly Active Users)
- → Integrated push notifications via Firebase Cloud Messaging, increasing user engagement by 45%.
- → Implemented and integrated REST API calls to facilitate seamless data communication between frontend and backend services, improving response time by 30%
- → Collaborated closely with the application testing and user experience teams to refine the UI based on direct feedback from end-users.

# **PROJECTS**

# EVENT MANAGEMENT DASHBOARD | REACT | NODEJS | FULLSTACK

2023

- → Developed a MERN stack application for creating, managing, and tracking events efficiently.
- → Implemented features such as task checklists, collaboration tools, and meeting scheduling using Express.js
- → Enabled CRUD operations with MongoDB, allowing admins to add, edit, and delete event data seamlessly.

# PREDICTIVE CRIME ANALYSIS | PYTHON | REACT | SCIKIT-LEARN | FAST-API

→ Analyzed 500k+ Karnataka crime records(2016-24) with Python and Power BI, revealing spatial trends and socio-economic patterns.

- → Conducted in-depth Exploratory Data Analysis (EDA) on crime types and demographics, uncovering **15+** key insights.
- → Built a machine learning model to predict crime rates on an hourly basis and trigger alerts during high-risk periods, optimizing police beat deployment.

# TEST SECURE | NodeJS | React

2024

- → Designed a secure examination paper distribution system ensuring **100%** examintegrity and confidentiality.
- → Implemented role-based authentication and authorization for **3** distinct roles: administrators, examiners, and invigilators.
- → Utilized **AES-256 CTR** encryption for secure paper upload and management, including version control.

# **SKILLS**

#### **PROGRAMMING**

Proficient:

Python • SQL • CSS • HTML

Experienced:

Javascript • C++ • MongoDB

Familiar:

Java • TypeScript

# LIBRARIES/FRAMEWORKS

Node.js • React.js • React Native • Expo • Fast-API • Scikit-learn

#### **TOOLS/PLATFORMS**

Git • Webpack • Firebase Postman • Docker

# **EDUCATION**

# **IIEST, SHIBPUR**

BACHELOR'S IN INFORMATION TECHNOLOGY Dec 2021 - Present | Kolkata, WB CGPA: 8.38 / 10

## REFERENCES

**John Doe**, Senior Software Developer, Tyrell Corp

Jane Doe, Senior Software Developer, Primatech

+19999999999