

# PRAMITI DEY

Kolkata, India

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## Education

**Institute of Engineering and Management, Kolkata, India** 2022- 2026  
*Bachelor of Technology in Computer Science Engineering specialization in IoT, CS, BT* CGPA : 8.74

**Basirhat Town High School, India** 2020- 2022  
*Higher Secondary Education (Class XII) - WBCHSE* Percentage : 84.40

**Basirhat HMD Girls' High School, India** 2020  
*Secondary Education (Class X) - WBBSE* Percentage : 90.14

## Relevant Coursework

- Data Structures
- DBMS
- Software Engineering
- Artificial Intelligence
- Algorithm Analysis
- OOPs
- Operating System
- Machine Learning

## Skills

**Languages :** Java, Python, HTML, CSS, JavaScript, SQL

**Tools :** Git/Version Control, VS Code, Excel, Jupyter Notebook, Google Colab, MySQL, Oracle LiveSQL

**Frameworks :** Numpy, Pandas, Matplotlib, Scikit-Learn, ReactJs, NodeJs, ExpressJs

**Database :** MySQL, MongoDB

**Specialization :** Artificial Intelligence, Machine Learning, Frontend Development

**Web Services :** APIs

**Soft Skills :** Effective Communication Skills, Problem Solving, Critical thinking ability, Leadership skills, Event Management, Time Management

## Projects

**Online Grievance Redressal System | HTML, CSS, Python, SQL** October 2024- Present

- Developed a full-stack web application for addressing grievances from people.
- Implemented and enabled CRUD operations and secure data handling. Also enabled tracking where users can receive a unique grievance ID for tracking progresses.
- Implemented automatically categorized grievances and escalation mechanism for escalating unsolved issues to higher authority.

**Epic Eats | HTML, CSS, Javascript** July 2024

- Engineered an advanced food delivery platform enhancing convenience and quality in meal distribution.
- Implemented seamless ordering with real-time tracking, personalized recommendations, and secure payment integration.
- Facilitated connections between customers and local restaurants through an intuitive, user-friendly platform.

**Chatbot for Mining Industry Laws | Python, Streamlit** July 2024

- Designed and implemented a chatbot capable of answering legal queries related to mining regulations.
- Utilized Natural Language Processing(NLP) techniques to ensure contextually relevant responses.
- Developed a user-friendly interface using Streamlit for easy interaction

**IoT based Smart Helmet for Mining Industry | ESP32, MQ135, DHT11, Blynk IoT, LoRA** March 2025

- Engineered an IoT-based system and smart mining helmet for real-time environmental monitoring using MQ135 gas and DHT11 temperature-humidity sensors and accident detection in the mines.
- Implemented ESP32 microcontroller for real-time data acquisition and wireless transmission to the Blynk IoT platform.
- Developed remote environmental monitoring via the Blynk mobile app with customizable threshold breach alerts.
- Used LoRA and GSM for long range connectivity, enhancing miner safety.

**AI based recipe generator | Ollama, Python, Streamlit** May 2025

- Designed and implemented a AI based recipe generator capable of generating recipes according to the user's preferences.
- Utilized generative AI, and Ollama to generate specifications in recipes and ensure contextually relevant responses according to the users's choices.
- Developed a user-friendly interface using Streamlit for easy interaction