

RATNADEEP SAHA

Kolkata, West Bengal

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Education

CoochBehar Government Engineering College

Bachelor of Technology in Computer Science and Engineering **CGPA - 8.41**

2021 – 2025

Coochbehar, West Bengal

Technical Projects

Emotion-Aware Memory-Augmented Chatbot | *Python, miniLM-V6, SQLite, Mitral 7b*

2023

- Implemented a chatbot in which the model will provide personalized motivating response to a depressing situation based on past successful event.
- The system implements memory for storing past conversations and for the response of current prompt, it will fetch the related conversations from the past response.

MicroKernel—Process-Scheduler-Simulator | [View Repository](#) | *C++*

2023

- Implemented a Round Robin scheduling simulator in C++ that models CPU process management with realistic context switching and performance tracking.
- The system implements Process Control Blocks (PCBs), CPU Register Management, Time Quantum Execution, Performance Metrics, Visual Execution Log.

College Complaint Management System (FastAPI) | [View Repository](#) | *Python, FastAPI, SQLite*

2022

- This is a backend API system built using FastAPI and SQLAlchemy for managing complaints raised by students and handled by college authorities.
- It uses JWT-based authentication, with separate login flows for students and authorities.

Technical Skills

- Programming Languages:** C++(8/10), Java(7/10), Python(6/10), SQL(7/10)
- Front-end:** HTML(8/10), CSS(8/10), JavaScript(7/10), React(7/10), Flutter(7/10)
- Backend Technologies:** SpringBoot(7/10)
- Tools & Practices:** Git, Firebase, MS Excel, Agile, CI/CD pipeline, SOLID Principles, OOPs

Interests

- Machine Learning
- Operating System
- DBMS
- Computer Network

Internships

Softareo Private Limited | [View Profile](#)

Dec 2022 – Jan 2023

Flutter Developer Intern

Aligarh, Uttar Pradesh

- Built responsive UI with Flutter and Riverpod, boosting engagement by 25%
- Connected 10+ REST APIs with error handling, reducing failures by 30%
- Implemented Firebase backend for features used by 500+ daily users

Zylu | [View Profile](#)

Oct 2022 – Nov 2022

Software Developer Intern

Bangalore

- Conducted API testing and resolved 10+ bugs, improving system reliability
- Enhanced UI elements using Flutter, leading to 15% improvement in user engagement
- Performed bug fixes, reducing crashes by 20%

Achievements

- Winner of Esparenza 2k23 Hackathon among 50+ teams for innovative mobile solution | [View Certificate](#)
- Conducted C/C++ workshops for 100+ students with 95% positive feedback rating

Certifications

- SQL for Data Analysis – Coursera (2024)
- Google Flutter Development Bootcamp (Udemy) – 2023