

# Sayak Chatterjee

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## EDUCATION

### Chandigarh University

Bachelor of Engineering, Major in Computer Engineering (Gpa:8.36)

Mohali, Punjab

Aug. 2020 – June 2024

## EXPERIENCE

### Business Development Associate

Protouch

January 2025 – Present

Gurugram, Haryana

- Managed 300+ leads monthly, delivering tailored Edtech solutions and achieving a conversion rate increase of 30% through need-based counseling.
- Counseled 200+ students, resolving concerns and aligning learning paths to improve engagement and satisfaction by 35%.
- Performed in-depth student profiling, increasing recommendation accuracy and boosting retention by 25%.

### Java Full Stack Intern

Yhills Pvt. Ltd.

January 2023 – April 2023

Noida, Uttar Pradesh

- Built a scalable back-end application using Spring MVC, JPA, DBever, and MySQL, streamlining course data management and user authentication across 1,000+ entries.
- Designed and deployed RESTful API endpoints to support full CRUD operations, reducing manual database intervention by 60%.
- Implemented role-based access control (RBAC), enhancing platform security with separate authorization flows for admins and users, leading to a 30% drop in unauthorized access attempts.

## PROJECTS

### ADID | ReactJS, NodeJS, ExpressJS, MongoDB, Python, Scikit-Learn, Matplotlib

Aug 2023 – Dec 2023

- Led a 4-member team to build a real-time IoT anomaly detection system, reducing false positives by 30% using MERN stack and Python APIs.
- Enhanced IoT maintenance by 25% through actionable graphs and improved user engagement by 20% with secure authentication and intuitive dashboards.
- Link: [github.com/ADID](https://github.com/ADID)

### SenpaiSays | ReactJS, NodeJS, ExpressJS, MongoDB, Flask, Machine Learning, Git

Feb 2023 – May 2023

- Engineered a real-time recommendation system using MERN stack and Python APIs, delivering 85% accurate personalized suggestions for movies, songs, and books..
- Boosted recommendation relevance by 30% through adaptive learning from user feedback, and implemented secure authentication, increasing user retention by 25% with seamless login and data protection.
- Link: [github.com/SenpaiSays](https://github.com/SenpaiSays)

## TECHNICAL SKILLS

**Languages:** Java 8, Python, C/C++ 17, SQL, JavaScript, HTML5/CSS3, R Programming, PHP

**Frameworks:** React.js, Node.js, Material-UI, Flask, JPA, Spring Boot, WordPress

**Database Technologies:** NoSQL – MongoDB, Firebase ; Relational DB – SQLite, Supabase, PostgreSQL, MySQL

**Tools & Technologies:** Git, CI/CD, Docker, Vite, Apache Spark, VS Code

**Coding Profiles:** [Leetcode/Sayak](https://leetcode.com/Sayak), [HackerRank/Sayak](https://leetcode.com/Sayak), [GeeksforGeeks/Sayak](https://leetcode.com/Sayak), [Codechef/Sayak](https://leetcode.com/Sayak)

## CERTIFICATIONS / ACHIEVEMENTS

- Certification In AWS Cloud Architect Solutions (2024) | [Link](#)
- Internship Completion Certificate In JAVA Full Stack Development (2023) | [Link](#)
- Infosys SpringBoard Certification in "Introduction to R and Linear Algebra" (2023) | [Link](#)
- IIT Madras Nptel Swayam Certification in Data Mining (2022) | [Link](#)
- Research Works:** Published a Research Paper titled "Enhancing IOT Anomaly Detection with DBSCAN" at a Conference on October 2024 | [Certificate Link](#) [Research Paper Link](#)