

# Tanay Chhajer

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## EDUCATION

Indian Institute of Technology Patna — Patna, India

B.Tech in Artificial Intelligence and Data Science

2022–2026

CPI: 8.57/10

MDS Senior Secondary School — Udaipur, India

Class 12: CBSE

2021–2022

Percentage: 97.4

## EXPERIENCE

Cloudbash Technologies (ExpertRec)

Software Development Intern

Bengaluru, India (Onsite)

May 2025 – Jul 2025

- Built a **FastAPI** marketing automation tool with **OAuth2**, **Redis**, and **SSE**, extracting data from **100k+ domains**.
- Implemented a **Playwright + Scrapfly** scraping pipeline to gather CMS, sitemaps, and SKUs, reducing API calls **70%**.
- Managed **PostgreSQL** with **Alembic** migrations, pooling, and retries to support **1M+ queries/month**.
- Deployed a **React + TypeScript** portal with dashboards, automated tests, and CI/CD via **Docker + Jenkins**; interacted with company backend via **SSH** for monitoring and maintenance.
- Developed a **BigCommerce plugin** integrating search & recommendation to boost store growth & uptime.

## TECHNICAL PROJECTS

JustChat | React, Node.js, Express, MongoDB, Socket.io

[GitHub](#)

- Built a real-time chat app with features like user authentication, group messaging, file sharing, and emoji support.
- Integrated WebSockets using **Socket.io** for instant messaging and state management with **Zustand** for UX.
- Enhanced backend APIs and database queries for smooth message delivery and responsive UI.

Mentis | Python, Federated Learning, LSTM, PyTorch, Flower, NumPy, NLTK

[GitHub](#)

- Created a privacy-preserving **LSTM** federated model for mental health sentiment analysis (7 classes, 53k+ samples).
- Achieved **71% accuracy** and **0.72 F1-score** across 15 decentralized clients using the **Flower** framework.
- Preprocessed text and trained models using **NLTK**, **PyTorch**, and **NumPy** while ensuring full data confidentiality.

## TECHNICAL SKILLS

Languages: C/C++, Python, JavaScript, PHP

Frameworks/Tools: React, Node.js, Express.js, FastAPI, Flask, Docker, Jenkins, Git/GitHub, Linux

Databases: MySQL, PostgreSQL, MongoDB, Redis

ML/DL: PyTorch, TensorFlow, Scikit-learn, NumPy, NLTK, Transformers, OpenCV

Coursework: Algorithms, Machine Learning, Deep Learning, NLP, Computer Vision, Operating Systems, Databases, Computer Networks

## ACHIEVEMENTS

Smart India Hackathon'23 Finalist: Conceptualized DERMIS, a machine learning mobile app for dermatological diagnosis.

Amazon ML Summer School 2025: Selected for advanced ML training in DL, Generative AI, and RL by Amazon scientists.

JEE Mains & Advanced 2022: Scored 99.6 percentile (**CRL 3581**) in JEE Mains & **AIR 3364** in JEE Advanced.

Codeforces Expert (Rating: 1674, Exynos21), CodeChef 4-star (Rating: 1826, exynos21).

Contest Ranks: Codeforces Round 1033 (Div. 2)—**334/28,000+**; CodeChef Starters 192—**67/21,000+** globally.

UGEE-IIIT Hyderabad: Secured **AIR 92** after final interview round.

International Quant Championship 2024: Ranked 661 out of 34,000+ teams globally in National round.

## LEADERSHIP & RESPONSIBILITIES

• Overall-Coordinator, E-Cell, IIT Patna

Directed IIT Patna's E-Cell, spearheading E-Summit'25 and managing end-to-end operations.

• Sub-Coordinator, Sponsorship & Marketing Committee, Celesta, IIT Patna

Coordinated sponsorships for IIT Patna's annual fest, securing key partnerships.