TANMAY CHATURVEDI

+91 8527907315 ♦ Delhi, NCR

∠ ctanmay043@gmail.com

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tanmay.works

EDUCATION

Indian Institute of Information Technology, Guwahati

B.Tech, Computer Science and Engineering

Expected May, 2027 CPI: 8.00/10

St. Mary's Christian School, Ghaziabad

Percentage: 94.6%

2022

Senior Secondary, Natural Sciences

PROJECTS

GeniusiFY (ongoing) React, Node.js, Express, MongoDB, Spotify API, Chart.js

A web app providing Spotify listening insights and personalized artist recommendations.

- Built a React UI with a Node.js + Express backend and MongoDB storage.
 Integrated the Spotify API for real-time music data and analytics.
- Designed interactive **Chart.js** visualizations for user trends.
- Future scope: Expand to mobile with **React Native**.

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AlgoRank React, Vite, TailwindCSS, Node.js, Express, Firebase, PostgreSQL, Judge0 API

A competitive coding platform with authentication, real-time code execution, and user analytics.

- Built secure authentication with Firebase and role-based access.
- Developed an **interactive code editor** with syntax highlighting.
- Integrated Judge0 API for sandboxed code execution.
- Implemented user analytics to track submissions and performance.
- Planned features: Contests, leaderboards, profiles, ELO rating system, cloud deployment.

Lunar Lander RL Agent Python, Stable-Baselines3, PPO, Gym

Trained a reinforcement learning agent to autonomously land a spacecraft in LunarLander-v3.

- Implemented a **PPO-based policy** with Stable-Baselines3, training over **1 million time steps**.
- Optimized hyperparameters using grid search, improving performance by 40%.
- Saved the **best-trained model** for deployment, reducing computation time by **30%**.

TECHNICAL SKILLS

Programming Languages C, C++, Java, Python, JavaScript, SQL.

Databases MySQL, PostgreSQL (basic), MongoDB (basic).

Frameworks and Platforms ReactJS, NodeJS, ExpressJS.

Relevant Coursework Data Structures and Algorithms, Computer Organization,

Object-Oriented Programming (OOP), Operating System,

Artificial Intelligence, Database Management Systems

ACHIEVEMENTS

- Advanced to the second level of Flipkart Grid 6.0 Software Development Track, outperforming over 99.7% of participants, based on code efficiency and algorithm design in initial challenge.
- Qualified for round 3 of Tata Imagination Challenge, 2024 Student Track, ranking in the top 7,000 participants out of 3,00,000+ registered.
- Qualified for round 2 of Great AppSec Hackathon 2024, ranking in the top 700 participants out of 6,000+ registered.
- Pupil on Codeforces with a max rating of 1359 and 3-star coder on Codechef with a max rating of 1629.
- Ranked 311th nationally and 2nd in IIIT Guwahati in the ICPC 2024 India Preliminary Practice Round.
- Ranked 1124th globally in Codeforces Round-948, Div-2 programming contest.
- Ranked 214th globally in Codechef Starters-141, Div-3 programming contest.