

# TANISHK RAJHANS SARODE

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## Education

**National Institute of Technology, Rourkela**

**Nov 2022 – Present**

*Bachelor of Technology in Computer Science and Engineering (CGPA: 7.20/10)*

*Rourkela, Odisha*

## Relevant Coursework

- Data Structures & Algorithms
- Object-Oriented System Design
- Compiler Design
- Operating Systems
- Database Engineering
- Computer Networks
- Design & Analysis of Algorithms
- Software Engineering
- Digital System Design

## Work Experience

**Gristip Software**

**May 2025 - July 2025**

*AI Solutions Intern*

- Engineered and deployed a GPT-powered support agent using **LangChain** and **FastAPI**, automating over 100 daily shipment and payment queries.
- Integrated the agent with a **Node.js/Express** backend and **MySQL** database to enable real-time status checks and shipment booking via dedicated APIs.
- Collaborated cross-functionally to deploy the agent to production, improving query resolution speed by an estimated 30%.
- Designed modular prompt templates with fallback logic to ensure high accuracy and provide human-like responses for task-specific queries.

## Projects

**CodeChill: Real-Time Collaborative Code Editor**

**June 2025 - July 2025**

*React, TypeScript, Vite, Node.js, Express, Socket.io, CodeMirror, Judge0 API*

*GitHub — Live Demo*

- Built a full-stack collaborative code editor with real-time editing for up to **10 users** using **Socket.io** WebSockets.
- Integrated **CodeMirror** for syntax highlighting, 5 popular languages, and dual theme modes (light/dark).
- Designed room-based sessions with unique IDs, ensuring **100% session isolation** and **0 persistent storage** for privacy.
- Reduced frontend load time by **35%** using **Vite**'s bundling, preloading, and hot module replacement.
- Added real-time code execution via **Judge0 API** with average latency under **2 seconds**.
- Led development across UI, backend, and deployment, modularizing **15+ components** for scalability.
- Showcased in **3+ interviews** and **2 workshops**, highlighting collaboration and execution features.

## Technical Skills

- **Languages & Tools:** Python, JavaScript, SQL, Git, Bash
- **Web Development:** Node.js, Express, Flask, FastAPI, REST APIs, Socket.io
- **Databases & Infra:** MySQL, PostgreSQL, MongoDB, Docker, AWS (EC2, S3), Kubernetes
- **Frontend:** React, CodeMirror, HTML/CSS, Bootstrap, Tailwind, Angular
- **AI/ML (Applied):** OpenAI GPT, LangChain, HuggingFace, PyTorch, TensorFlow, YOLOv8

## Extracurricular Activities

**Nitrutsav'24 – NIT Rourkela**

**Dec 2023 - Feb 2024**

*Sponsorship Coordinator*

- Secured partnerships worth **Rs.5L+** from 20+ brands (incl. Fortune 500), driving event attendance to 10,000+ through multi-channel campaigns.

**Athletics Team – NIT Rourkela**

**Nov 2022 - Present**

*Middle-Distance Runner & Peer Mentor*

- Ranked top 15% in Inter-NIT Championships (2022, 2023); mentored 15+ athletes, improving team race times by 18% via data-driven training plans.