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

- Computer Vision
- Operating Systems
- Database Systems
- Computer Networks
- Data Structures & Algorithms
- Object-Oriented Programming

Work Experience

Gristip Software   May 2025 – July 2025
AI Solutions Intern

- Built and deployed a GPT-powered support agent using LangChain and FastAPI, automating 100+ daily shipment/payment queries.
- Integrated agent into a Node.js/Express backend with MySQL, enabling real-time status checks and shipment booking via APIs.
- Collaborated cross-functionally to deploy the agent in production, improving query resolution speed by an estimated 30%.
- Created modular prompt templates for task-specific handling and fallback logic to ensure accurate, human-like responses.

Projects

CodeChill: Real-Time Collaborative Code Editor   Mar 2024 – Present
React, Node.js, Express, Socket.io, CodeMirror   *GitHub*

- Built a full-stack collaborative code editor enabling multi-user real-time editing with **Socket.io** WebSockets.
- Integrated **CodeMirror** for syntax highlighting, supporting 20+ languages and live theme switching.
- Designed room-based sessions with unique IDs for secure, shareable collaboration (e.g., mock interviews, pair coding).
- Improved frontend performance and reduced initial load by 40% using Express static builds and asset optimization.
- Led development across UI, backend, and deployment, maintaining clean modular code for long-term scalability.
- Showcased project during technical interviews and coding workshops to demonstrate real-time collaboration 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 2024 – 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.