

Adarsh Singh Parihar

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[Portfolio](#)

Education

Indian Institute of Technology (Indian School of Mines), Dhanbad

B.Tech- Department of Mechanical Engineering (MME) (CGPA: 8.12 / 10.00)

Expected May 2026

Dhanbad, Jharkhand

Experience

Goldman Sachs – Bengaluru, India

Software Engineer Intern (Summer Analyst)

May 2025 – Jul 2025

[Certificate](#)

- Automated complex workflows by developing an Agentic AI system using **LangGraph** and **LangChain**, leveraging Router & Supervisor architectures to enable parallel Agent calls and reduce manual touchpoints.
- Built a token usage tracker and analyzed cost variations across different dataset sizes to ensure accurate cost estimation for future large-scale deployment of agents for multiple workflows.
- Designed and optimized Agent workflows to handle large datasets (10K–15K rows) using data chunking techniques and implemented **Single-Agent**, **Multi-Agent Router** and **Supervisor Architectures** for scalability and reliability.
- Implemented advanced prompting techniques (**CoT**, **Reflexion**, **ReAct**) and tool segregation for specialized agent, reducing hallucinations to achieve 90–95% accuracy and saving 4–5 hours of daily manual effort.

Projects

CineHub | Next.js, Node.js, JWT, Express.js, Axios, Mongoose, Nodemailer, Redux, Razorpay, Streaming, Tailwind [GitHub](#)

- Built a scalable OTT video streaming platform with secure authentication, Razorpay payment integration (with email notifications), premium subscriptions, wishlist tracking, and OTP-based password recovery.

TempShell | Docker, Kubernetes, Python, FastAPI, MySQL, React.js [GitHub](#)

- Developed a secure, scalable platform for spawning temporary shells, providing an isolated and controlled environment for command execution. Optimized pod creation to achieve startup times under 30 seconds and integrated JWT-based authentication with MySQL-powered user management.

InternHelper | Node.js, Express.js, Puppeteer, HTML/CSS, JavaScript [GitHub](#)

- Engineered an automation tool using **Puppeteer library** to auto-fills user profile details and intelligently applies to 50+ internships per run on **Internshala** based on user-defined preferences, reducing manual effort by over 90%.

Fake Profile Detector (SIH-2023) | Python, Instaloader Module, Streamlit, Jupyter Notebook, ML-Random Forest, JS. [GitHub](#)

- Developed a machine learning-based system to determine whether an **Instagram account is real or fake** with over 90% accuracy, using a Python-based web scraper to gather and analyze Instagram account details.

Technical Skills

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

AI & Agents: LangGraph, LangChain, ReAct Agents, Tool binding, Multi-agent systems

Technologies & Frameworks: React.js, Next.js, Redux, Node.js, Express.js, Nodemailer, FastAPI, Razorpay Payments, Firebase, MongoDB, MySQL, Postman, Git & GitHub, Amazon Web Services (AWS), Docker, Kubernetes, Linux Servers

Concepts: DSA, Operating System, OOP, Database Management System, Computer Networks, System Design

Cybersecurity: Cryptography, Web Exploitation, Bash Scripting, Kali Linux, Burp Suite, Ghidra, Wireshark

Achievements

- Solved 1200+ problems across all the Coding Platforms: Codeforces, Leetcode, Codechef, CSES, GFG.
- Competitive Programming: Codeforces **Specialist (1504)**, Leetcode **Knight (1886)**, Codechef **4 Star (1838)**.
- Secured 2nd runner-up position in college's internal hackathon for SIH 2023, competing against 150+ teams.
- Winner of Winter of Code 5.0, a hackathon hosted by Cyberlabs, among 700+ participants.
- Achieved 2nd Rank in PragyanCTF, a Capture the Flag event conducted by NIT Trichy, among 500+ teams.

Positions of Responsibility

Organizing Team Member: PearlCTF 2024 & 2025, Organized a world-level cybersecurity competition by Cyberlabs, IIT (ISM) Dhanbad, featuring diverse challenges (Web, Forensics, Crypto, Rev, OSINT) and engaging 2500+ global participants.

Finance Head: Conetto 2024 - Annual techno-management fest of IIT(ISM) Dhanbad.

Organizer (Conetto 2023): Organized Trailblaze, an intra-college CTF event with 600+ participants, by Infosec.

Member: Cyberlabs (Infosec Division) - Data & Software Technology Club of IIT(ISM) Dhanbad.