

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

May 2025 – Jul 2025

Software Engineer Intern (Summer Analyst)

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 PragyantCTF**, 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: Concetto 2024 - Annual techno-management fest of IIT(ISM) Dhanbad.

Organizer (Concetto 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.