# AYUSH KUMAR

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#### Education

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

Dhanbad, Jharkhand

Bachelor of Technology in Computer Science and Engineering

(Dec, 2021 - May, 2025)

• Relevant Coursework: Data Structures and Algorithms, Operating Systems (OS), Object-Oriented Programming System (OOPS), Database Management System (DBMS), Computer Networks, Deep Learning.

## Experience

## Bharat Electronic Limited (R&D Intern, Gaziabad)

Feb 2025 - March 2025

- Worked at BEL CRL (Ghaziabad) in R&D, contributing to the ATMS team who has deployed fully functional system for daily flight plan management and ATC training software at Bhubaneswar Airport.
- Got exposure to Develop a QT/py application on RHL 8.2 that converts voice inputs into detailed flight plan scenarios.

## Google Summer Of Code (Rocket Chat)

May 2025-Present

- Implementing a significant upgrade to Rocket. Chat message composer elements to provide users, AI assistance in writing messages using Context-sensitive spelling corrections, inline grammar correction recommendations, and clarity-enhancing rewording, Inline hinting are among the major features. The project also provides language translation, summarization, emoji, and tone control features.
- Tech Stack: Meteory, RocketChat SDK, MongoDB, TypeScript, RocketChat Apps-Engine, REST APIs.

# **Projects**

# My-Web-Server-CPP: C++, Linux, Makefile GitHub

- Developed a lightweight, multi-threaded C++ web server using TCP/IP to serve cutom request.
- Empowering Gzip compression and ETag-based web cache validation for efficient content delivery.

## Stock Analysis - View Website | GitHub

(Open Source, 300+ Unique Clone)

- Created a full-stack web application to provide in-depth stock analysis and investment advice.
- Implemented role-based authentication, email validation using nodemailer, password reset options, dynamic stock filtering, Limited aritcle view without authentication, Live view tracking.
- Tech Stack: MongoDB, Docker, Express.js, React.js, Tailwind CSS, Node.js, JWT, Context API, CI/CD Pipeline.

## Enhancing LLM Privacy Using RAG — Python, GenAI, Ollama, HuggingFace - GitHub

- Developed a local, **privacy-preserving LLM using RAG** to keep data secure on-device.
- Improved retrieval accuracy (20% to 30%) by fine-tuning the RAG model's retrieval component.

#### Technical Skills

Languages: C++, C, HTML, CSS, Javascript, Python, SQL, ReactJS

Frameworks: NodeJs, Express, Mongodb

Developers Tool: VS Code, JupyterNotebook, Docker, GIT

## Achievements

• Codeforces - specialist(1439) | Problems: 500+ • Codechef - 4 Star | Problems: 150+

- Leetcode Knight (1887) | Problems 350+
- CodingNinja Expert | Problems 200+
- Meta Hackercup 2023 Round 2 Rank 2895.
- ICPC Asia Amritapuri Regionals 2023: Secured rank 26 out of 510 regional teams.
- NTSE AIR 241 Scholar.
- Secured AIR 4068 in JEE Advanced and in the top 0.44% of students among 1 Million+ students in JEE Mains.
- Secured a minimum ranking of 49 among 37078 in Leetcode (Weekly Contest 406).