

MOHIT KUMAR TIWARY

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Professional Summary

Third-year Computer Science student (SMIT) with hands-on experience in full-stack development, AI/ML engineering, and backend systems. Built and production-deployed two live platforms (MoGenAI, PredictaStock) and shipped a production REST API during a backend-focused internship at Tata Technologies Limited. Awarded the LeetCode Knight Badge (Top 1.53% globally) and consistently finishes in the top 100, highlighted by a peak Rank 13 among 35,000+ competitors.

Education

Sikkim Manipal Institute of Technology (SMIT)

Bachelor of Technology in Computer Science and Engineering

Jul 2024 – Jul 2028

Pakyong, Sikkim

CGPA: 7.33/10 **Relevant Coursework:** DSA, OOP, DBMS, Software Engineering, Operating Systems, Advanced Java, Machine Learning

Experience

Software Engineer Intern

Tata Technologies Limited (Tata Motors Jamshedpur Plant)

Jun 2026 – Jul 2026

Jamshedpur, Jharkhand

- Architected and shipped a **5-endpoint REST API** on **FastAPI + SQLite**, powering live analytics across **100 vendors and 5 regions** from a **496,000+ row** production dataset, consumed directly by the frontend with zero cached or mocked data.
- Led backend architecture and deployment for a **6-member team**, coordinating parallel workstreams across data analytics, business analytics, and frontend via a branch-per-module Git workflow with PR reviews.
- Directed a full-stack **data-integrity audit** across **6 frontend pages**, resolving **5 categories** of fabricated/placeholder UI data pre-launch, and caught a teammate's PR accidentally deleting **11 backend files** before it reached production.

Technical Skills

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

Web & Backend: React.js, Node.js, Express.js, FastAPI, Flask, REST APIs, HTML, CSS

AI / ML: TensorFlow, Keras, LSTM, Scikit-learn, Pandas, NumPy, ChromaDB, Sentence-Transformers

Databases: MySQL, PostgreSQL, MongoDB, ChromaDB

Tools & Platforms: Git, GitHub, Docker, AWS, HuggingFace Spaces, Vercel, CI/CD, Linux

Data & BI: Power BI, Tableau, Excel (Advanced)

Projects

MoGenAI | AI Business Intelligence Platform | [Live Demo](#) | [GitHub](#)

March 2026 – April 2026

- Built and **production-deployed** a full-stack AI BI SaaS platform processing **5+ file formats**, delivering auto-generated executive dashboards and cited insights in **under 90 seconds**.
- Implemented **concurrent multi-provider LLM orchestration** with thread-safe fallback mechanism and **60-second cooldown synchronization** across **Groq Llama 3.3, Gemini 2.0 Flash, and Cerebras** achieving near-zero downtime.
- Engineered **RAG pipeline** using **ChromaDB** and sentence-transformers for semantic retrieval; deployed **Dockerized FastAPI** backend on HuggingFace Spaces and React + Vite frontend on Vercel.

PredictaStock | AI Stock Forecasting Platform | [Live Demo](#) | [GitHub](#)

Jan 2026 – Feb 2026

- Designed a **distributed REST API architecture** with **asynchronous data pipelines** for real-time stock ingestion and concurrent prediction serving using a **3-layer stacked LSTM** with financial indicators (RSI, MACD, Bollinger Bands).
- Developed a **React.js dashboard** featuring real-time charts, forecast tables, and a live scrolling ticker; deployed on **Railway** (backend) and **Netlify** (frontend) utilizing a GitHub auto-deploy **CI/CD pipeline**.

Achievements

- Awarded the LeetCode Guardian Badge (Contest Rating: 2166)**, placing in the **top 1.1% globally**. Achieved a peak global **Rank 13** (out of 35,000+ competitors) in Weekly Contest 510, with consistent top-100 finishes including Rank 62 (Weekly 507), Rank 63 (Biweekly 186), and Rank 76 (Weekly 509).
- Solved 500+ DSA problems in Java**, building strong command over data structures, algorithms, and time/space complexity optimization.
- Maintained 25+ public GitHub repositories** spanning software engineering, machine learning, and distributed systems.