

Kumar Shubham

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Education

Birla Institute of Technology, Mesra	Jharkhand, India
Bachelor of Technology — CGPA: 8.5	Sep. 2023 – May 2027
JVM Shyamali, Ranchi (CBSE)	Jharkhand, India
Class XII – 86.4%	2022
St. Francis School, Ranchi (ICSE)	Jharkhand, India
Class X – 97.2%	2020

Experience

Generative AI Testing Intern (Remote) Jun. 2025 – Aug. 2025
BuildFastWithAI

- Evaluated 12+ AI tools across developer productivity and content-generation domains
- Identified 40+ UX issues, edge cases, and functional inconsistencies through structured testing
- Documented reproducible feedback, reducing developer clarification cycles by ~30%
- Created technical demos and explainers reaching 1K+ cumulative views

Engineering Intern May 2025 – Jun. 2025
MECON Limited, Ranchi, Jharkhand

- Collaborated across teams on documentation and system workflows for 2+ industrial projects
- Reviewed 20+ technical drawings and specifications, strengthening analytical reasoning
- Applied structured problem-solving approaches transferable to backend system design

Projects

AtomQuest — Goal Setting & Performance Tracking Portal | Next.js, Supabase, PostgreSQL, Row Level Security, REST APIs 2026

- Built a full-stack goal-tracking portal with 3 roles (Employee, Manager, Admin) and server-side weightage validation
- Implemented lock-on-approval workflow with a complete audit log (timestamp, user, action, old/new values)
- Enforced database-level data isolation using Supabase Row Level Security across all 5 core tables
- Automated quarterly score calculation across 4 measurement types (Minimize, Maximize, Timeline, Zero Incident)

Live Demo: <https://atom-eight-xi.vercel.app/>

GitHub: <https://github.com/Sh8ubham/Atom>

Realtime Chatroom Application | Next.js, TypeScript, Elysia, Eden, React Query, Upstash Redis 2025

- Built a realtime, room-based chat application supporting 50+ concurrent short-lived chat sessions
- Implemented secure room creation and client-side routing using Next.js App Router
- Designed a fully typed backend with Elysia and Eden, ensuring end-to-end type safety
- Used Upstash Redis with TTL-based auto-expiry for ephemeral room storage
- Integrated React Query mutations with loading, error, and retry states

CricScope | Python, Pandas, Scikit-learn, Streamlit 2025

- Integrated and cleaned IPL datasets (2008–2024) via preprocessing and validation
- Retrained and evaluated a Logistic Regression model achieving 81.1% cross-validation accuracy
- Extended prediction coverage from 8 to 10 IPL franchises through end-to-end pipeline updates
- Added support for Lucknow Super Giants and Gujarat Titans across prediction workflows

Agri Vision | Python, Pytest, OpenWeatherMap API 2025

- Developed automated unit tests covering weather API success, failure, and rainfall parsing
- Validated fallback logic between OpenWeatherMap and alternative weather providers
- Improved weather-service test coverage from 79% to 98% through comprehensive testing
- Enhanced maintainability through dependency and environment configuration updates

Technical Skills

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

Frontend: React, Next.js, HTML, CSS, TailwindCSS

Backend: Node.js, Express, REST APIs, Django

Databases: PostgreSQL, Redis, Supabase

ML & Data Science: Pandas, NumPy, Scikit-learn, Data Preprocessing, Model Evaluation, Supervised Learning

Tools & Platforms: Git, GitHub, Google Cloud, Clerk, Sanity

Core Concepts: Authentication, Authorization, Row Level Security, SSR, API Optimization

Certifications & Programs

- The Complete Full-Stack Web Development Bootcamp — Udemy (61.5 hours), Mar 2025
- Contributor, GirlScript Summer of Code (GSSoC) 2026
- Risk Job Simulation — Forage, Mar 2025
- Supply Chain Job Simulation — Forage, Sep 2025
- Participant, Tata Crucible Campus Quiz 2025 and HP Power Lab 2.0