

JYOTIRADITYA

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[GitHub](#) | [LinkedIn](#) | [Portfolio](#) | [LeetCode](#) | [CodeChef](#) | Patna

Professional Summary

Software Developer proficient in **full-stack development** (React, Node.js) and AI/ML (TensorFlow, LLMs). Applied Generative AI to build scalable applications, including chatbots, using Git for version control and n8n for automation. Solved **400+ coding challenges** across coding platforms, demonstrating excellent problem-solving skills. Led cross-functional campus teams to deliver research initiatives and coordination projects on time.

Skills

Programming Languages: C++, Python, JavaScript (ES6+), SQL

Frameworks & Libraries: React, Node.js, Express.js, TensorFlow, Keras, REST APIs

Databases & Cloud Platforms: MongoDB, PostgreSQL, Supabase, AWS (EC2, S3), Vercel

Developer Tools: Git, GitHub Actions (CI/CD), Docker, Authentication & Authorization (JWT, OAuth)

Core Computer Science: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks, System Design

Education

Birla Institute of Technology, Mesra

November 2022 - Expected May 2026

B.Tech in Electronics and Communication Engineering — GPA: **7.42 / 10**

Class 12 (CBSE) — Percentage: **93.2%**

April 2021

Experience

Research Intern | Indian Institute of Technology Patna | [GitHub Repository](#)

May 2025 – July 2025

- Developed CNN emotion classifier using TensorFlow on **35,000+ images**, achieving **91%** accuracy.
- Integrated Gemini 1.5 LLM chatbot with PDF export and Streamlit deployment; tested with **50+** queries/session.
- Built **Stock Screener Agent** using **LangGraph** and **yfinance** with memory, pagination, and dynamic queries.
- Captured 7+ attributes (bid/ask, 52-week highs/lows, analyst ratings); debugged yfinance API bug to improve reliability.

Projects

Learnify – AI-Powered LMS SaaS App

Tech Stack: **Next.js, React, TypeScript, Supabase**

[GitHub Repository](#)

- Built full-stack LMS with role-based access, Clerk authentication, and VAPI AI voice integration for interactive sessions.
- Integrated Supabase APIs for real-time updates and session tracking, designed to support **200+ concurrent users** with secure database operations.
- Implemented Stripe subscriptions and access workflows using Clerk for seamless auth and plan management.
- Deployed with Next.js App Router and Tailwind CSS styling, **streamlined** for responsiveness across devices.

BlogForge – Full-Stack AI Blog Generation Platform

Tech Stack: **MongoDB, Express.js, React, Node.js, Tailwind CSS, Gemini API**

[GitHub Repository](#)

- Developed MERN platform with JWT authentication, admin dashboard, and AI blog generation using Gemini Pro API. Built to handle **1,500 requests/day** with 1M token context.
- Implemented CRUD for markdown posts, real-time search, tag filtering, and comments. **Streamlined** for **100+ concurrent users** via MongoDB Atlas scaling.
- Added view counters, likes, and AI comment replies, designed for **120 requests/minute** on Gemini Pro.
- **Enhanced** mobile-first UI with Tailwind CSS, including summarization and idea-to-post features for scalability.

Achievements

- Rated **3★** on CodeChef (**Max Rating: 1615, Division 2**; top **~20%** globally).
- Secured **Global Rank 261** out of **~8,000 participants** in an international CodeChef **Division 2 contest** (Sep 2025).

Leadership & Responsibility

Placement Coordinator: Coordinated placements for **200+ students**, boosting engagement and participation by **25%**.

Athletics Captain: Led **100+ athletes** in intercollegiate events, managing logistics to secure **top-3 finishes**.

Certifications

– **AWS Certified Cloud Practitioner** – Amazon Web Services

Issued: August 2025

– **Generative AI Explained** – NVIDIA Deep Learning Institute

Issued: August 2025

Research and Publications

SmartConnect 6G – Research Publication: Applied **Reinforcement Learning** to optimize **LTE-A** access in dense **IoT networks**, achieving **90% collision reduction** for future **6G systems**. [[ResearchGate](#)]