

Yash Tiwary

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🧠 SKILLS

Programming - Python, Java, JavaScript, C++, SQL, R, TypeScript, HTML, CSS

AI/ML Tools - TensorFlow, PyTorch, Scikit Learn, HuggingFace, Cohere, LangChain, RAG, Airflow

Frameworks / Libraries - React, Next.js, Node.js, FastAPI, Flask, Django, Tailwind CSS, Sanity

Databases / Tools - Git, GitHub, Docker, Jenkins, Postman, Redis, PostgreSQL, MongoDB, GraphQL, DBEaver

Cloud Technologies - AWS, Azure

📁 WORK EXPERIENCE

Software Engineer - Thoucentric - A Xoriant Company

January 2024 – present

Intelligent Contract Management Platform

- Achieved **65%** faster contract reviews and **92%** higher accuracy by applying Cohere AI and DeepSeek NLP models for contract understanding and clause extraction
- Established a RAG driven framework leveraging Cohere embeddings to conduct semantic searches on prior agreements, extract clauses, and recommend negotiation ready language
- Built React UIs and Azure CI/CD, reducing deployment overhead **35%** and enabling instant insights

Intelligent Risk Mitigation and Evidence Management System

- Designed a scalable RAG pipeline for automated risk detection and compliance validation with LangChain, cutting manual review effort **50%**
- Integrated vector databases with HuggingFace embeddings, boosting semantic search accuracy **45%** across large datasets
- Embedded RAG outputs into interactive Power BI dashboards, accelerating risk informed decision making by **30%**

Procurement Optimization Platform

- Reduced stock out incidents **30%** and elevated satisfaction **25%** by developing a procurement solution with GraphQL APIs, React, and D3.js visualizations
- Forecasted purchasing needs and decreased excess inventory **20%** through predictive pipelines and MongoDB integrated decision models

Internal Products – Thousense, PriceVision, ThouPlan

- Optimized database queries and cut latency **30%+** by engineering RESTful APIs in Flask, Django, and FastAPI backed by PostgreSQL and MongoDB
- Strengthened security posture by instituting Keycloak based admin portals for centralized identity and role governance
- Automated **40%** of repetitive tasks by scheduling workflows with Argo for recurring jobs

Data & Business Operation Intern - ConvergenSEE India

June 2023 – August 2023

- Cut manual reporting time **20+ hours/week** and improved client report accuracy **35%** by engineering a centralized data analytics system integrating cross platform advertising data
- Optimized API data flows by analyzing META handled services and integrating outputs with client specific SRM tools

📁 PROJECTS

HTTP Server

March 2025 – May 2025

- Safely handled **1,000+** concurrent requests per second by building a non blocking concurrency model in **Rust** using `async/await`
- Implemented HTTP/1.1 with routing, middleware, persistent connections, and WebSocket ready real time communication
- Designed a plugin ready architecture with observability features (metrics, tracing), enabling seamless scaling and DevOps integration

Nexus Mind: AI-Powered Knowledge Discovery & Insights Platform

February 2025 – March 2025

- Attained **95%** content extraction accuracy by constructing a RAG based document intelligence system with LangChain, Cohere, and FastAPI
- Accelerated query handling **40%** through a cloud native backend integrating PostgreSQL (pgvector), AWS S3, and Redis
- Advanced user experience by implementing interactive dashboards and data driven insights for visualization

🎓 EDUCATION

NIIT University

2020 – 2024

Bachelor of Technology – Computer Science and Engineering

Activities: Robotics Club Coordinator, Student Affairs Committee Member, Teaching Assistant, HULT Vice Campus Director, Head of Student Cooperation