

Shubham Singh

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Work Experience

Junior Data Scientist

June 2025 – Present

Anheuser-Busch InBev

Bangalore, India

- Built and productionized a **fully agentic Structured & Unstructured RAG pipelines** enabling **900+ global users** across Procurement and Supply Chain teams to query enterprise P&L, pricing, and sourcing data through natural language.
- Architected **semantic retrieval, NL2SQL systems, and multi-agent workflows** that reduced conversational analytics latency from **~5 minutes to ~50 seconds**.
- Built **document intelligence pipelines** across **procurement contracts and amendments** using **OCR, vector search, and LLM orchestration**, enabling automated clause extraction with **~95% accuracy**.
- Eliminated nearly **80% of manual analytical effort** by enabling self-serve conversational analytics, replacing traditional dashboard and analyst-driven reporting workflows.
- Led **packaging category strategy initiatives** by developing supplier risk profiling frameworks across **cost, compliance, quality, delivery, and sourcing KPIs**, enabling data-driven supplier evaluation and procurement decision-making.
- Designed scalable AI systems using **Azure OpenAI, Databricks, LangChain, FastAPI, and vector databases** for enterprise-scale deployment across global supply chain operations.
- Partnered with global **PPMs, Category Managers, and Supply Chain leaders** to drive enterprise AI adoption, earning an **Individual Performance Award** for measurable business impact.

Procurement Analytics Intern

Feb 2025 – May 2025

Anheuser-Busch InBev

Bangalore, India

- Spearheaded analytics initiatives across **global eAuction and sourcing workflows**, driving procurement efficiency and delivering estimated business impact exceeding **\$20M**.
- Built and operationalized **eAuction Rule Recommendation model** using **MLflow, observability frameworks, and automated training pipelines**, improving bidding effectiveness and sourcing decisions.
- Led the complete ML lifecycle from experimentation to **production deployment and live inference hosting**, resolving **overfitting and class imbalance** challenges to improve model reliability.

Technical Skills

AI / GenAI: Generative AI, Agentic AI Systems, Structured RAG, LangChain, LangGraph, NL2SQL, Prompt Engineering, Semantic Retrieval, Vector Search, LLM Evaluation, NLP

Machine Learning: Deep Learning, Predictive Modeling, Feature Engineering, Model Optimization, MLflow, AI Benchmarking

Languages: Python, SQL, C/C++

Frameworks & Tools: FastAPI, Flask, PyTorch, TensorFlow, Scikit-learn, Pandas, NumPy, Databricks, PySpark

Cloud & Data: Azure OpenAI, Azure AI Services, Azure ML, PostgreSQL, MongoDB, Power BI, Tableau

Engineering: REST APIs, ETL Pipelines, Git, GitHub, Data Modeling, Agile/Scrum

Education

Vellore Institute of Technology, Chennai

2021 – 2025

B.Tech in Computer Science & Engineering (AI & ML) — CGPA: 8.9

Chennai, India

Achievements

Individual Performance Award — Anheuser-Busch InBev, for driving enterprise AI adoption and measurable business impact across global supply chain teams.

2nd Place — Segue 2.0 Global Design Thinking Challenge in collaboration (All-India).

2nd Place — Design Rush, IIT BHU (All-India).

Runner-up — FlutterFest, GDSC VIT.

Leadership & Activities

Google Developer Student Clubs — Web Development Team

Nov 2023 – Sep 2024

Co-led club website development and coordinated technical events with 3,000+ participants.

Android Club — Joint Secretary

May 2023 – May 2024

Organized 8+ technical events and led recruitment/community engagement initiatives.