ANSH AGRAWAL

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EDUCATION

Bennett University   Greater Noida, India
B.Tech in Computer Science (AI/ML), CGPA: 7.83   *Sept 2022 – May 2026*

Jayshree Periwal High School   Jaipur, India
Senior Secondary (PCM), Percentage: 93%   *2022*

SKILLS

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

Backend & APIs: FastAPI, REST, Async workflows

AI/ML: PyTorch, TensorFlow, LangChain, LangGraph, RAG, GraphRAG, Scikit-learn

Databases & Vector Stores: MySQL, Redshift, Weaviate, ChromaDB

Web & Tools: Next.js, Git, Postman, AWS EC2, Google ADK

EXPERIENCE

Motilal Oswal Financial Services Ltd.   Mumbai, India
Data Science Intern   *June 2025 – Present*
  – Built and productionized an LLM-based SQL agent over Redshift enabling natural-language analytics, improving reporting turnaround and reducing manual query effort.
  – Debugged and fixed critical production failures including Redshift connection drops, infinite tool-calling loops, and query misclassification impacting system throughput.
  – Optimized internal API authentication by implementing token refresh-on-expiry logic, reducing redundant auth calls and improving tool execution latency.
  – Designed and benchmarked GraphRAG pipelines using Neo4j and vector retrieval, tuning accuracy, latency, and cost for production deployment.
  – Refactored production services by modularizing configs and utilities, improving maintainability and onboarding speed.

NoQs   Remote
Data Analyst Intern   *June 2023 – July 2023*
  – Built dashboards using Google Sheets and MySQL to analyze 500K+ records for internal insights.
  – Automated bulk email and WhatsApp outreach using Sheets Extensions and Meta API, reducing manual workload by 70%.

PROJECTS

RAG Chatbot   June 2025
Gemini API, LangChain, LangGraph, ChromaDB, FastAPI, Next.js
  – Implemented end-to-end RAG pipeline including ingestion, chunking, embedding, vector indexing, and query-time retrieval for document-grounded responses.
  – Built FastAPI backend for document upload, preprocessing, and vector-based retrieval with async request handling.

  – Developed Next.js frontend with real-time chat interface and deployed on Vercel.

YoloNet (IEEE)   Nov 2024
YOLOv5, EfficientNet-B0, Python
  – Engineered hybrid YOLO + EfficientNet model for real-time cattle disease detection using 8,000+ images.
  – Achieved 97.97% accuracy, outperforming MobileNetV2, ResNet50, and DenseNet121 baselines.

ACHIEVEMENTS

- **1st Place – BugSpray, Zenivia Techfest (2025):** Won competitive debugging contest at university techfest.
- **Best Team Player – NoQs Internship (2023):** Awarded for collaboration and consistent performance.