

# Anamika Choudhary

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LinkedIn | GitHub | Portfolio



## EDUCATION

### • Indian Institute of Technology (IIT), Jodhpur

Bachelor of Technology in Materials Science

CGPA - 6.86

### • Prince Academy of Higher Education, Rajasthan

Class X - 95.4% // Class XII - 92%

CBSE - 2019 || 2021

## TECHNICAL SKILLS

**Languages:** Python, C/C++, SQL, HTML, CSS

**Tools:** MySQL, Excel, Power BI, Tableau

**Frameworks & Libraries:** Pandas, NumPy, Scikit-Learn, OpenAI, HuggingFace, LLMs (LangChain, Ollama), NLTK, Vader, Matplotlib, Requests, BeautifulSoup

## WORK EXPERIENCE

### • SCIENTIFIC INVESTING (LLM Intern) -

Feb 2025

- Developed an AI-powered financial analyst chatbot using **LangChain** and **Ollama (Llama 3.2 model)** for real-time stock analysis and PDF report processing
- Integrated **FinnHub API** with **RAG (Retrieval-Augmented Generation)** architecture to analyze earnings calls and market data for 50+ publicly traded companies
- Constructed interactive Streamlit dashboards for visualizing stock trends, financial metrics, and generating actionable investment insights

## PROJECTS

### • TRANSCRIPT SENTIMENT ANALYSIS - [GitHub](#)

- Automated multi-document processing pipeline handling 10+ PDF transcripts simultaneously with **PyPDF2**, implementing **text extraction, cleaning, and tokenization**.
- Implemented a hybrid sentiment scoring engine combining **60% VADER + 40% FinBERT** models to analyze 20+ forward-looking indicators and 6+ risk-related keywords, generating normalized 0-1 risk scores
- Correlated sentiment with stock performance using **Yahoo Finance API**, uncovering sentiment–price relationships across multiple time periods and featuring visualizations (dual-axis charts, trend analysis, volatility gauges)

### • CUSTOMER CHURN PREDICTION - [Dashboard](#), [GitHub](#)

- Developed and productionized 3 ensemble ML models (**Random Forest, Gradient Boosting, XGBoost**) achieving 80%+ **accuracy**, **F1-scores** 0.75–0.85, and **ROC-AUC** >0.82, with SMOTE oversampling
- Engineered an end-to-end data pipeline with **feature engineering, scaling, encoding, and optimized hyperparameter tuning** across 8+ parameters per model, ensuring robust and reliable churn predictions.
- Implemented advanced model monitoring framework using **PSI** (0.02–0.15), **KS** (0.43–0.62), and **CSI thresholds**, enabling real-time drift detection.

### • GLOBAL SUPERSTORE SALES ANALYSIS - [GitHub](#)

- Executed **SQL** queries to calculate 12-month moving averages to analyze sales trends, profit ratios, and sales trends across regions and product categories.
- Designed **Tableau dashboard** analyzing \$12.6M sales and \$1.5M profit across 178K+ orders with drill-down filters and Top/Bottom N analysis to identify market trends and shipping inefficiencies

## POSITION OF RESPONSIBILITY

- Mentor & Core Team Member, Groove Theory (Dance Society), IITJ Secured top-10 ranks in Inter-IIT Cultural Meets and selected for Indian Hip Hop Dance Championship (HHI).

- Event Assistant Head Coordinator, Udbhaas-2022 Exhibition, IITJ