



ANAMIKA CHOUDHARY

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EDUCATION

IIT JODHPUR

BTech in Materials Science and Metallurgical Engineering || CGPA: **6.86**

Jodhpur, Rajasthan
December 2021-May 2025

PRINCE ACADEMY OF HIGHER EDUCATION

Class 10 (CBSE-2019) - **95.4%** || Class 12 (CBSE-2021) - **92%**

Sikar, Rajasthan

WORK EXPERIENCE

FINANCIAL ANALYTICS CHATBOT ASSISTANT ([Workflow](#))

November 2024

LLM Intern Under Saurabh Kumar (Assistant Faculty @IITJ) || Scientific Investing

- **Automated Entity Extraction:** Developed an NLP model to extract key entities (companies, participants, business quarters) from **15+** quarterly conference call transcripts in **2021**.
- **Chatbot for Document Insights:** Built a **Q&A chatbot** leveraging LLM to retrieve and summarize key information across **100+** PDFs, enhancing financial decision-making. Enhanced search functionality in financial transcripts using **Ollama 3.2:1b**.
- **Advanced Search Optimization:** Using **LangChain**, **ChromaDB**, and embeddings for precise query handling.

PROJECTS

CON-CALL SENTIMENT ANALYSIS PROJECT ([Dashboard](#))

October 2024-November 2024

AI for Fintech Course Project | Under Saurabh Kumar (Assistant Faculty @IITJ)

- Leveraged advanced tools like **NLTK**, **VADER** and **AFINN** to extract actionable insights after data cleaning, tokenization, and stopwords removal, ensuring seamless analysis of text data.
- Made a **Power-Bi Dashboard** to look at the impact of positive sentiment scores on market trends.

CAUSAL MACHINE LEARNING ANALYSIS TO BOOST USER ENGAGEMENT IN APP PARTICIPATION

Under Dr.Dweepobotee Brahma(Assistant Professor @IITJ) || Applied Economics

September 2024-December 2024

- **Applied Causal Random Forests and Causal Tree models** on survey data (**604 participants**) to analyze Conditional Average Treatment Effect (CATE) by age, revealing key drivers of app engagement across demographics.
- **Recommended age-specific strategies:** Reward-based incentives for younger segments(14-20) and trust-building for older(40-60)groups, improving targeted engagement approaches. ([Project Report](#))

DATA ANALYTICS PROJECT – PIZZA SALES ANALYSIS USING SQL & POWER BI ([Dashboard](#))

August 2024 - September 2024

- Analyzed pizza sales data for **49,574** pizzas across **21,350** orders using optimized SQL queries for enterprise data analytics, improving performance and reporting efficiency.
- Developed interactive dashboards that highlighted top sellers, with "The Thai Chicken Pizza" generating **\$43K in revenue**, and identified opportunities to improve underperforming items like "The Brie Carre Pizza," which had the lowest sales at **\$12K**.
- Demonstrated that "Classic" pizzas accounted for **26.91%** of total sales and "Large" size pizzas contributed **45.89%** of total revenue, leading to strategic recommendations on inventory and marketing.

REAL-TIME HEIGHT MONITORING IN SS316L STEEL 3D PRINTING([Link](#)):

August 2023 - January 2024

- Designed and implemented a robust algorithm to visualize and analyze the heights across multiple positions, achieving accurate height assessment for 3D printing processes.
- Optimized data extraction by applying advanced color masking techniques (**RGB, grayscale, LAB**), resulting in a **75%** improvement in printed material detection precision.
- Processed and analyzed over **1,000 high-resolution images** to ensure comprehensive and reliable insights.

RELEVANT COURSEWORK:

Object - Oriented Programming || Introduction to Machine Learning || Data Structures and Algorithms || AI for Fintech || Machine Learning for Economics || Financial Analytics

ACTIVITIES

MENTOR AND CORE TEAM MEMBER OF THE GROOVE THEORY(DANCE SOCIETY), IITJ

July 2022 – Present

- Secured **8th and 6th** positions in the **Inter-IIT Cultural Meet** for the years 2023 and 2024, respectively.
- Attained esteemed positions in various other events such as Spectrum, Ignus, and Aura.
- Selected in **Indian Hip Hop Dance Championship (HHI)**

ASSISTANT HEAD AND COORDINATOR (UDBHAAS-2022 EXHIBITION IITJ)

IIT JODHPUR

JCKIF (Jodhpur City Knowledge and Innovation Foundation)

November 2022

- Managed **logistics and setup** for Udbhas 2022, showcasing over **200** local artists; the event's success earned recognition from Hon'ble Union Minister Shri Gajendra Singh Shekhawat.

TECHNICAL SKILLS

Programming & Data Tools: DSA, Python, C/C++, Machine Learning, Problem Solving, Excel, Statistics, SQL, Power BI, OpenCV, Scikit-Learn, Matplotlib, Pandas, NumPy, Git, NLP