

Nishant Rai

Data Analyst

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EDUCATION

AiCore, Remote Skills Bootcamp in Data Analytics	09/2024 – Present
University of Birmingham, Birmingham, UK Master of Science in Chemistry <ul style="list-style-type: none">First-Class honours (1st)Head of School Prize	09/2020 – 07/2024
Lawrence Sheriff School, Birmingham, UK <ul style="list-style-type: none">A-Levels - Chemistry (A*), Biology (A*), Maths (A*)AS Level - Further Maths (A)	09/2016 – 07/2018

SKILLS

Techniques: Data Visualization, Extract, Transform, Load (ETL), Statistical Modeling, Data Cleaning
Tools: Python, MATLAB, Excel, SQL, Pandas, Extract, AWS, Git/Github. Microsoft Power BI

ACHIEVEMENTS

[Haworth Scholarship](#) for chemistry
Silver DoFe Reward
Red Cross First Aid Certification

PROJECTS

E-Commerce Power BI Report <ul style="list-style-type: none">Performed ETL on a 120,000-record e-commerce data- set, extracting data from Azure Storage and Azure SQL Database accounts into Power BI.Transformed and cleaned data using Power Query to form a star-based schema data model including a custom date table, and implemented 25 DAX measures to support visualisations and time intelligence.Created a 4-page report in Power BI containing 40 visualisations.Constructed 5 SQL queries for the same data to generate insights for use outside of the Power BI environment.	11/2023
Exploratory Data Analysis: Customer Loans in Finance <ul style="list-style-type: none">Designed a custom python class to extract data from an RDS database with SQLAlchemy, and conducted ETL and cleaning on a 54,000 record online shopping in retail data set.Prepared the data using Pandas, including data cleaning of 40 columns, imputation of missing values, outlier removal and transformation of skewed data.Answered 10 business questions by generating visualisations and exploring the data.Analyzed 2000+ records from e-commerce datasets, identifying key trends in customer purchasing habits and presenting findings that informed marketing strategies and improved targeting efforts for upcoming campaigns.	10/2023

WORK EXPERIENCE

Outlier, Remote

AI Prompt Engineer

12/2024 – Present

- Applied deep knowledge of chemistry to design prompts aimed at evaluating and challenging the reasoning capabilities of Large Language Models (LLMs) in the domain of scientific inquiry.
- Systematically crafted complex and nuanced prompts to induce reasoning errors or inaccuracies in LLMs, specifically targeting areas where the AI may lack domain-specific knowledge or make logical mistakes.
- Crafted scientifically precise feedback for AI outputs in chemistry, directly enhancing the accuracy of responses by addressing key reasoning errors; findings led to improved model reliability across 15 complex inquiries.
- Conducted rigorous testing of LLM responses in real-time, evaluating the AI's ability to reason within the scope of complex chemistry problems and identifying opportunities for improvement.

Domino's, Coventry, UK

Team Member

09/2018 – 09/2019

- Streamlined in-store operations by coordinating service strategies, which led to a significant reduction of 20% in customer wait times during peak hours while maintaining quality standards and enhancing overall satisfaction.
- Ensured compliance with hygiene regulations by conducting daily quality checks on food preparation areas, resulting in zero health violations during quarterly inspections and maintaining the highest cleanliness standards.
- Delivered high-quality meals during peak hours, achieving a consistent customer satisfaction rating of 95% by adhering to food safety protocols and exceeding service expectations amidst challenging conditions.

University Hospital, Coventry & Warwickshire, UK

Summer Intern

07/2017 – 08/2017

- Shadowed and observed doctors across 3+ medical departments including anaesthesiology and radiology.
- Analyzed patient scan data using Excel and Python to extract key insights, identifying critical imaging patterns that increased diagnostic accuracy across three medical departments during a high-volume summer internship.
- Collaborated with a multidisciplinary team of healthcare professionals to improve patient communication processes, contributing insights that enhanced the overall efficiency and effectiveness of clinical rounds for 25+ patients weekly.

VOLUNTEERING

Acorns Children's Hospice Charity Shop, Coventry, UK

Customer Assistant

01/2015 – 12/2015

- Collaborated as part of a team to receive, sort and price gifted goods, while complying with all health and safety standards.
- Regularly checked inventory levels and restocked shelves to maintain fresh supplies.
- Operated the cash register to process over 50 items and up to £1000 in customer transactions, contributing to an 18% increase in monthly sales.