**Nishant Rai**

Data Analyst

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• <https://github.com/NishantRai567>

EDUCATION  
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**AiCore, Remote**  09/2024 –02/2025

Skills Bootcamp in Data Analytics

**University of Birmingham,** Birmingham, UK 09/2020 – 07/2024

Master of Science in Chemistry

* First-Class honours (1st)
* Head of School Prize

**Lawrence Sheriff School,** Birmingham, UK 09/2016 – 07/2018

* A-Levels - Chemistry (A\*), Biology (A\*), Maths (A\*)
* AS Level - Further Maths (A)

SKILLS   
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**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  
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[Haworth Scholarship](https://www.birmingham.ac.uk/funding/undergraduate/haworth-scholarship) for chemistry

Silver DoFe Reward

Red Cross First Aid Certification

PROJECTS  
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**E-Commerce Power BI Report** 11/2024

* 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.

**Exploratory Data Analysis: Online Shopping in Retail** 10/2024

* 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.

WORK EXPERIENCE  
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**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 Intern07/2017 – 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  
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**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