

KUSH SHAH

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SUMMARY

Physics graduate with a First Class Honours degree from King's College London with strong analytical, problem-solving, and technical skills. Experience in handling data, streamlining operations, supporting business processes in inventory, logistics, and e-commerce. Proficient in Excel, SQL, Python, and data visualisation tools, with a keen ability to extract insights and drive practical improvements. Interested in bringing a hands-on and adaptable approach to a dynamic and growth-focused team.

EDUCATION

King's College London • London September 2019 – July 2023

Masters in Science • Physics with Theoretical Physics • First Class Honours

Key modules: Mathematics & Computation for Physics, Symmetry in Physics, Numerical Modelling, Statistical Mechanics, Mathematical Methods for Theoretical Physics, Scientific Communications

Awards: Maxwell Prize (2023) - Awarded for the best overall performance by a final year MSci student

Watford Grammar Boys School • Watford

September 2017 – June 2019

A Levels • Mathematics, Physics, Chemistry

Awards: Upper-Sixth Form Prize for Physics and Student Support Work

WORK EXPERIENCE

Inventory Analyst – Imperial Lifestyle Ltd.

June 2024 – June 2025

London

- Maintained Microsoft Excel spreadsheets to monitor wholesale and online sales, track stock levels across different channels, and support basic forecasting.
- Helped manage inventory by recording new deliveries, updating stock records, and tracking product performance to support stock ordering decisions.
- Liaised with overseas suppliers to confirm order details, track delivery schedules, and report any issues such as damaged or missing stock.

Graduate Teaching Assistant – King's College London

September 2022 – April 2023

London

- Graded lab notebooks and reports while assisting in the execution of experiments across two semesters.
- Guided students to effectively record, organise and analyse data using advanced Microsoft Excel techniques.
- Collaborated with professors and students to exchange ideas and enhance the module's experience for all.

E-Commerce Assistant – Imperial Lifestyle Ltd.

June 2021 – Sep 2021 & 2022

London

- Supported operations for 10 online retailers across 3 e-commerce platforms, ensuring optimised performance.
- Managed a 600+ item inventory using Microsoft Excel for order fulfilment and restocking coordination.
- Delivered outstanding customer service by resolving inquiries and efficiently dealing with escalating cases.

PROJECTS

Evaluating Performance of the Hyper Kamiokande Outer Detector Design

October 2022 – May 2023

- Simulated particle trajectories and detector geometry using WCSim (C++), for water Cherenkov studies.
- Performed data analysis and visualisation using ROOT (C++), to generate 3D models and histograms.
- Summarised findings in a detailed report and presentation, both centred on addressing the dissertation question of how the detector performance evolves over time.
- Presented the report to Kamiokande researchers and provided simulation code to Ph.D. students at the university for ongoing research.

Lloyds Banking Group Data Science Job Simulation on Forage

July 2025

- Developed and refined a predictive model using XGBoost, achieving approximately 70% accuracy and an ROC-AUC score above 0.63 through systematic hyperparameter tuning.
- Performed data preprocessing with missing value imputation, label encoding, and feature scaling.
- Improved model performance by tuning tree parameters, applying class weighting, and optimising classification threshold based on F1 score.
- Used feature importance and threshold analysis to improve interpretability and balance precision-recall.

SKILLS

- **Technical Tools:** Python (NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Statsmodels), SQL (PostgreSQL, MySQL, BigQuery), Microsoft Excel, Google Sheets, Tableau, Power BI
- **Data Analysis:** Data Cleaning, Data Visualisation, Regression Analysis, Principal Component Analysis
- **Other Skills:** Scientific Research & Report Writing, Inventory Management, Sales Forecasting, Mathematical Methods (Linear Algebra, Calculus)