Kush Shah

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Summary

Recent physics graduate from King's College London, eager to pursue a career in data analytics. With a strong foundation in analytical thinking, numerical skills, and problem solving, my goal is to leverage my knowledge of data analysis to improve decision-making processes. I excel in using advanced mathematical methods and computational tools to provide insightful analyses and effectively communicate findings. My goal is to contribute to innovative solutions and strategic decisions within a dynamic organisation, driving business growth and efficiency.

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 (A*), Physics (A), Chemistry (C)
Awards: Upper-Sixth Form Prize for Physics and Student Support Work

Skills

- **Python** (*NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, Statsmodel*)
- **SQL** (*PostgreSQL, MySQL, BigQuery*)
- **Spreadsheets** (*Microsoft Excel, Google Sheets*)
- **Languages:** English (*Fluent*), Gujarati (*Fluent*), Hindi (*Conversational Proficiency*)
- **Tableau** & **PowerBI**
- **Scientific Research and Report Writing**
- **Mathematics** (*Linear Algebra, Calculus, PCA*)
- **Regression** (*Linear & Logistic Regression*)

Work Experience

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 fulfillment and restocking coordination.
- Delivered outstanding customer service by resolving inquiries and efficiently dealing with escalating cases.

Projects

Evaulating 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.
- Data analysis and visualisation performed using ROOT (C++), to generate 3D models and histograms.
- Summarised findings in a detailed report and presentation, both centered on addressing the dissertation question of how the detector performance evolves over time.
- Shared the report with Kamiokande researchers and provided simulation code to Ph.D. students at the university for ongoing research.

Evaluating Performance of the Hyper Kamiokande Outer Detector Design   October 2022 – May 2023
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Relevant Courses & Certifications

- Google Data Analytics Professional Certificate
- SQL for Data Science (University of California, Davis)
- Google Advanced Data Analytics Professional Certificate
- Mathematics for Machine Learning Specialization (Imperial College London)
- Python for Data Science and Machine Learning (Udemy)
- Microsoft Excel - Advanced Excel Formulas & Functions (Udemy)