KUSH SHAH

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SUMMARY

As a recent Theoretical Physics graduate from King's College London, I am eager to pursue a career in data analytics. With a strong foundation in analytical thinking, numerical skills, and problem-solving, I aim to leverage my data analysis and machine learning knowledge to enhance 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, Introduction to Numerical Modelling, Statistical Mechanics, Advanced Mathematical Methods for Theoretical Physics, Scientific Communications, Advanced Quantum Theory*
>
> *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

- Facilitated engaging lab sessions, aiding student understanding of fundamental physics concepts through experiments
- Provided crucial support in a magnetic levitation experiment
- Guided student projects, graded assignments, ensured safe lab practices and assisted in data analysis during practicals

E-Commerce Assistant – Imperial Lifestyle Ltd.   June 2021 – Sep 2021 & 2022

London

- Managed a 600+ product inventory, ensuring accurate listings and efficient order fulfillment
- Provided exceptional customer service, resolving inquiries promptly and routing complex issues effectively
- Enhanced analytical skills via inventory tracking, improving turnover and cost-effectiveness

PROJECTS

Evaulating Performance of the Hyper Kamiokande Outer Detector Design   October 2022 – May 2023

- Simulated the path of muons into the detector and trajectories of Cherenkov light within the detector using WCSim (C++)
- Retrieved and stored data from the simulations and performed data analysis using ROOT (C++)
- Presented ideas and findings to supervisor and forwarded work to researchers working on the Kamiokande project

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)