

Education

<b>Imperial College London, Physics MSci</b> <ul style="list-style-type: none"><li>Predicted First-Class Honours.</li><li>Comprehensive study of differential equations, probability analysis and distributions, regression analysis, multivariate statistical methods, data science and machine learning.</li><li>Completed the Imperial Horizons module in Accounting and Finance.</li><li>Active member of the Imperial Investment and Finance Society.</li></ul>	Oct 2022 - Jun 2026
<b>Bishopshalt School</b> <ul style="list-style-type: none"><li>Achieved 3 A*s at A-level in Maths, Physics, and Computer Science.</li></ul>	Sep 2020 - Aug 2022
<b>Rosedale College</b> <ul style="list-style-type: none"><li>Achieved 13 GCSEs with grades 9 to 8 including Maths and English, and 2 Distinctions.</li><li>Valedictorian, recognised for academic excellence and leadership qualities.</li></ul>	Sep 2015 - Aug 2020

Professional Experience

<b>Private Tutor</b> <ul style="list-style-type: none"><li>Developed customised tutoring plans using diagnostic assessments, interactive problem-solving techniques, and regular progress reviews, resulting in a two-grade improvement for over 20 students.</li><li>Designed and implemented tailored lesson plans utilising adaptive learning technologies to meet individual student needs, achieving a 95% satisfaction rate through positive student and guardian feedback reports.</li></ul>	Jan 2022 - Present
<b>Cherry Hill Tuition</b> <ul style="list-style-type: none"><li>Facilitated group tutoring sessions in Maths and Physics, utilising discussions, peer assessments, and collaborative projects to enhance student engagement by 30% (surveyed), encouraging peer-to-peer learning and critical thinking.</li><li>Contributed to curriculum development and student assessment by implementing collaborative projects and unbiased evaluations, resulting in a 15% improvement in overall performance.</li></ul>	Jun 2023 - Aug 2023
<b>Sam's Refrigeration Ltd</b> <ul style="list-style-type: none"><li>Delivered IT consultancy by diagnosing and resolving technical issues, implementing security measures like firewall configurations and encryption protocols for data protection. Conducted system audits to ensure compliance with security standards and best practices.</li><li>Developed and installed a NAS server system with advanced backup technologies, improving data retention by 32% through robust backup solutions. Provided staff training on data and security protocols to enhance overall security.</li></ul>	May 2019 - Mar 2020

Projects (See Portfolio)

<b>MarketSeer: Financial Forecasting Application</b> <ul style="list-style-type: none"><li>Developed using React (front-end) and Flask (back-end), integrating TensorFlow to run predictive models such as LSTM and ARIMA for financial data analysis. Achieved a 64% accuracy rate in financial forecasts, aiming to improve to 85%.</li><li>Designed a dashboard displaying predictive insights, interactive data visualisations using D3.js, and simulation tools for risk assessment. Enhanced user decision-making capabilities and experience through intuitive design and functionality.</li></ul>	Mar 2024 - Present
<b>Portfolio Risk Management System</b> <ul style="list-style-type: none"><li>Developed a Portfolio Risk Management System using C++ to calculate risk assessment metrics like VaR and CVaR. Analysed historical data to quantify financial risk, predicting a 20% improvement in risk management effectiveness.</li><li>Created detailed risk reports and dashboards using Tableau to visualise risk metrics and trends, aiding in strategic decision-making and provided valuable current insights for portfolio management.</li></ul>	Apr 2024 - Present
<b>Advanced Gyroscopic Stabilisation Systems</b> <ul style="list-style-type: none"><li>Developed a stabilisation device using advanced control systems such as PID controllers and real-time data analytics, including Kalman filters. Achieved a 54% increase in stability and performance through precise control and data analysis.</li><li>Built a prototype using Arduino for hardware control and Python for analytical processing, demonstrating significant stability improvements. Enhanced device performance through meticulous control and data-driven adjustments.</li></ul>	Apr 2023 - Jun 2023

Skills

**Technical Skills:** Python (advanced), React, Flask, TensorFlow, C++, HTML, Matlab, PHP, VBA, Machine Learning Implementations, Git, Financial Modelling, Financial Analysis, Investment Research, Competitive Analysis.  
**Soft Skills:** Communication, Critical Thinking, Problem-Solving, Collaboration, Leadership, Time Management.  
**Languages:** English (fluent), Urdu/Punjabi/Hindi (conversational).

Activities and Interests

**Networking Events:**  
• SEO London, Spring into Insurance Event, learning about risk management and networking with professionals.  
• Diverse AI discussing neural networks, machine learning, and its uses in business and cloud services.  
**Sports:** Gold medallist in Borough Badminton Championships, School Basketball Team Captain.  
**Hobbies:** National RC Car Racing Champion (multiple under-18 titles), Gym (addicted), Trader (long-term), Chess Enthusiast, Amateur Photographer, Volunteering for local community services.