

KRISH SHAH

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EDUCATION

King's College London

Sep 2024 – Present

Bachelor of Science in Computer Science with Management

London

Expected GPA: 1st Class (1:1)

Relevant Coursework: Data Structures, Databases, Discrete Math I, Financial Accounting & Reporting, Principles of Economics

King George V School

Aug 2017 – May 2024

IB Diploma - 43/45 (Higher Level 7/7s - Computer Science, Math AI, Business Management)

Hong Kong

*IGCSEs - 10 A*s/9s - Highest Attainable Score*

PROJECTS

Neural Network Gold Predictor | Python, Jupyter Notebook

Jan 2025 – Present

- Created a **feed forward neural network** model using **PyTorch** and **tensors** to predict a rise or drop in **Gold Futures** (GC=F)
- Used a Binary Cross Entropy Loss and the Adam optimizer; loss visualised using **Matplotlib** graphs. Currently at a **79%** accuracy
- Implemented **NumPy**, **pandas dataFrames**, and **sci-kit learn** to facilitate shifting and preparing data for training and testing
- Deployed features such as moving averages, RSI and various economic indicators from large datasets for projections

Bank Account Database | MySQL, VS Code

Aug 2024

- Constructed a sample banking database system using **MySQL** to simulate a bank account's functions
- Designed **triggers** to **simultaneously update** both users' accounts and check balances to avoid fraud and hacks
- Fabricated **40+ queries** to sort and filter through data, and indexes to **speed up** query retrieval time by **0.6 seconds**

Diamond Management Inventory System | Java, Eclipse, NetBeans

Oct 2022 – Apr 2023

- Designed an **OOP-based** system with **dynamic data structures** (Linked Lists, Queues, HashMaps) for efficient stock management
- Developed a **GUI** for transactions using **javafx.swing**, with optimised sorting $O(n \log n)$ and searching $O(\log n)$
- Integrated the **JFreeChart** library to visualise summaries and predict future prices to a **60% accuracy** from averaging

EXPERIENCE

Global Student Mentorship Centre

Jun 2024 – Dec 2024

Personal Tutor - IB/IGCSE

Hong Kong, Remote

- Directed **4 IB computer science students** through extensive coursework projects with logic and algorithmic problems
- Up-skilled 8 students in business theory and exam techniques for *case studies*, enabling the formulation of *consulting* responses to long-answer exam questions, **increasing** 4 students' university **predicted grades by 1**

MeeOpp

Apr 2023 – Jun 2023

Student UI/UX Design Intern

Hong Kong

- Advised the education technology startup on strategies to capture the focus of more students in the market
- Redesigned the homepage UI with UI/UX engineers to improve learning tool **accessibility** and **readability** by **10%**
- Collaborated with team members to devise a new rewards program, increasing students' **time spent** on learning by **27%**

LEADERSHIP / RESEARCH

King's Investment Society

Jan 2025 – Present

Equities and Trading Research Analyst

London

- Sole Global Market researcher, delivering a **5-page** weekly insights covering Equities and FICC markets, including all derivatives
- Posting the research **weekly** on an Instagram account with **1100+** followers, gaining a **9%** increase in followers since joining
- Using economic theory to explain market movements and hypothesise future changes to the US, European, and Asian markets

King George V School

Nov 2023 – Jan 2024

Tesla Pricing Strategy Analysis

Hong Kong

- Conducted a **20-page** qualitative/quantitative analysis **predicting** Tesla's **share price drop** based on a profitability and news data
- Applied **Porter's Generic Strategies** to assess Tesla's shift to cost leadership in the competitive Chinese EV market
- Synthesized data from news sources to identify potential price war risks and brand image issues due to a **6.90%** price cut

SKILLS / EXTRACURRICULAR

Hard Skills/Languages: Python, Java, SQL | English (fluent), Hindi (fluent), Gujarati (fluent), Mandarin (novice), French (novice)

Developer Tools: VS Code, IntelliJ IDEA, Eclipse, Jupyter Notebook, PyCharm, NetBeans, Github

Packages/Libraries: Java Collections Interface, javafx.swing, Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch

Certifications: DataCamp Python Data Fundamentals, Bank of America IB Job Simulation, AmplifyMe Finance Accelerator

Awards: ESF IB Excellence Chairman's Award, 2023 UKMT Senior Math Challenge Silver Award, IGCSE Business Award

Sports & Interests: University LUSL 2 Tennis Team, Solving LeetCode Problems, Cycling, Playing Badminton

Head of King's Quant Society Corporate Relations