

Justin Koo

Entry-level Data Analyst and Machine Learning Engineer

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✓ Right to work in the UK

✓ No sponsorship required

Summary

I am intrigued by the latest technology and digital transformations that spans from quantitative trading to new generative artificial intelligence. I am passionate about data science, collaborating with intellectual stimulating and high-performing teams.

Experience

Machine Learning Research Project Student / Statistical Machine Learning Group UCL

October 2022 – May 2023 | London, UK

Developed a robust machine learning model alongside Prof. Marc Deisenroth for predict grasp stabilities of robotic arms. Collected a custom dataset with 1000 grasp configurations in a physics simulation environment for model training and validation. Achieved 78% grasp success rate on unseen objects. Sought for a balance between dataset size and model accuracy by performing optimisations.

Systems Engineer / The Apperta CIC Foundation

October 2021 – April 2022 | London, UK

Led a team of three in a client-facing project involving voice recording analysis to reduce the workload of NHS employees. Created a word cloud feature that automatically analyses and visualizes key topics of voice recordings to address patients' concerns. Refactored an existing Python codebase by following development lifecycles. Adapted quickly to new technologies such as Django and Notion through active self-learning, to meet the project's technical requirements.

Business Analyst / Look4Schools UK Ltd.

April 2020 – April 2022 | London, UK

Delivered Edtech for international students applying to UK independent and state schools. Analysed school attributes such as GCE and GCSE results and Oxbridge admission statistics. Clustered schools by academic performance, teacher-to-student ratio, and Ofsted inspection ratings for further analysis, such as correlations between performance and location. Volunteered to develop a Django webapp prototype with an interactive UI, which was adopted by the company.

Education

University College London (UCL) / BSc in Computer Science with Honours (2:1)

September 2020 – September 2023

Dissertation: Robust Robotic Grasping Utilizing Touch Sensing (Distinction, 78.98%)

Colchester Royal Grammar School / GCE A Levels

September 2018 – August 2020

Grades: A*A*A*A* in Mathematics, Further Mathematics, Physics and Chemistry

Awards: Gold Certificate – UKMT Senior Mathematics Challenge (2018, 2019) – Top 10% of 60,000+ participants

Tools

- Programming languages (intermediate proficiency): Python, SQL, R, Java, JavaScript, HTML
- Machine learning tools: PyTorch, scikit-learn
- Data processing tools: Excel, Google Sheets, Pandas
- Other tools: Django, LaTeX, Notion, Overleaf, Slack, Trello

Languages

Fluent in English, Cantonese (native), and Mandarin (native); Beginner in Spanish

Certificates

Google Data Analytics Professional Certificate (ID: AVG73K759LD8)