

TALHA JAMAL

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EDUCATION

- 2023 - 2024** **Imperial College Business School** **London, UK**
MSc Risk Management & Financial Engineering
Machine Learning, Financial Statistics, Advanced Financial Statistics, Computation Finance in C++, Stochastic Calculus, Advanced Options Theory, Financial Engineering, Data Structures and Algorithms
- 2017 - 2020** **The University of Manchester** **Manchester, UK**
B.Eng. Electrical and Electronic Engineering, First Class Honours
Mathematics 1E1, Mathematics 1E2, Mathematics 2E1, Numerical Analysis, Concurrent Systems, Signals & Systems, Data Networking, C Programming, Computer Systems Architecture
Dissertation: Human Activity Recognition using Time Series Data with CNNs and LSTM RNNs – [Link](#).

WORK EXPERIENCE

- 2022 - 2023** **S&P Global Market Intelligence** **Islamabad, Pakistan**
Senior Specialist, Quantitative Analysis
- Simulated proprietary momentum, mean reversion, & factor investing strategies for clients via C++ scripts, reducing runtime by 10% and streamlining month end portfolio rebalancing for clients
 - Developed python scripts to manipulate time-series and point-in-time data for visualization in Tableau, making an Alteryx subscription redundant, resulting in cost savings of \$100k
 - Formulated a strategy with product management to introduce ClariFI's API to clients, created 5 sample interactive python notebooks and delivered tailored demos to clients globally
- 2021 - 2022** **S&P Global Market Intelligence** **Islamabad, Pakistan**
Specialist, Quantitative Analysis
- Gained research experience by modelling quantitative research and portfolio optimization workflows for 20 clients in North America, EMEA and APAC, leveraging S&P and IHS Markit's proprietary datasets such as Compustat, CIQ, and Short Interest Data
 - Initiated automation of tasks via Batch and PowerShell Scripts and developed a repository and version control system for API and automation related scripts, enhancing team collaboration and productivity by 5% and ensuring efficient organization, retrieval, and preservation of code
 - Built strategic relationships with clients by facilitating communication between clients and developers, aligning product features with client requests, resulting in a 100% renewal rate and \$960k ACV for 10 North American & EMEA clients

ACHIEVEMENTS

- 2020** **Technology Start-up Mentor, Manchester Entrepreneurs** **Manchester, UK**
- Mentored a cohort of 20 start-ups at AccelerateME, a student led start-up accelerator, culminating in a Demo Day where start-up founders pitched business ideas and products to 500 investors
- 2018 - 2020** **EEE Pass Scheme Leader & Coordinator** **Manchester, UK**
- Lead the Peer Assisted Student Support scheme across the Electrical and Electronic Engineering Department, helping 360 junior students navigate academic and personal lives at university

ADDITIONAL SKILLS

IT SKILLS

Programming Languages: Python (advanced), C++ (Intermediate), SQL (Intermediate), R (Basic)
Scripting Languages: Batch Scripts (Intermediate), PowerShell (Basic), Linux/Bash (Basic)

SELECT PROJECTS

Visualizing a Nasdaq Market Order Book – [Link](#).
Practicing Data Structure and Algorithm Exercises from Jay Wengrow's DSA Book – [Link](#).

LANGUAGES

English (fluent), Urdu (Native), Pashto (Native)

CERTIFICATIONS

Passed CFA Level 1, April 2022.

EXTRA CURRICULAR ACTIVITIES

- Engaging in endurance exercises, aiming to finish the London Marathon in under 5 hours in 2025