

TALHA JAMAL

+92 3121952888

tj23@imperial.ac.uk

EDUCATION

- 2023 - 2024** **Imperial College London** **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

- 2021 - 2023** **S&P Global Market Intelligence** **Islamabad, Pakistan**
Quantitative Specialist, Investment Management
- Modelled quantitative research and portfolio management workflows for 20 clients in North America, EMEA, and APAC using S&P's quant research product called ClariFI
 - 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 integrate the ClariFI API for clients, created 5 sample interactive python notebooks and delivered API demos to a global client base
 - Gained research experience in feature generation via construction of alpha factors using R and ClariFI's visual query language
 - Automated tasks using Batch and PowerShell Scripts, enhancing team productivity by 5%
 - Validated 2 new datasets, such as Short Interest Data, following S&P and IHS Markit's merger to ensure data was clean, consistent, and relevant to clients
 - Initiated and developed a repository and version control system for API and automation related scripts, ensuring efficient organization, retrieval, and preservation of code
 - Facilitated communication between clients and developers by 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 with start-up founders pitching 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 using Python – [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 routine endurance exercises with the goal of running in the 2025 London Marathon