**Talha Jamal**

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EDUCATION

**2022-2023 Imperial College London London, UK**

*MSc. Risk Management and 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](https://github.com/talhajamal11/Human-Activity-Recognition-using-CNN-and-LSTM-RNN).

WORK EXPERIENCE

**2021-2023 S&P Global Market Intelligence Islamabad, Pakistan**

**Quantitative Specialist, Investment Management**

* Knowledge Expert of ClariFI, a Quantitative Research and Portfolio Management Product.
* Quantitative Consultant on Factor Backtesting, Algorithmic Trading, Forecast Modelling, Event Study, Portfolio Optimization, and Portfolio Attribution for 10 clients in North America & EMEA.
* Gained Research Experience in Feature Generation using R and ClariFI’s visual query language by evaluating new datasets, such as Short Interest Data, following the S&P and IHS Markit merger.
* Developed Python Scripts to manipulate time-series and point-in-time data for visualization in Tableau, eliminating the need for an Alteryx subscription, resulting in cost savings of $100k.
* Backtested proprietary momentum, mean reversion, and factor investing strategies for clients via custom C++ scripts, reducing runtime by 10% and streamlining month end portfolio rebalancing.
* Spearheaded the development and integration of ClariFI’s API by collaborating with Developers, creating Interactive Notebooks, and delivering engaging API demos to a global client base.
* Automated tasks using Batch and PowerShell Scripts, enhancing team productivity by 5%.
* Lead the development of 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 the developers by aligning product features with client requests, resulting in a 100% renewal rate and $960k ACV for clients under my management.

ACHIEVEMENTS

**2020 Technology Start-up Mentor, Manchester Entrepreneurs Manchester, UK**

* Mentored a cohort of 20 Start-ups at Accelerate ME, the biggest student led start-up accelerator in the Northern UK, with alumni raising £2.45 million of funding to date.

**2018-2020 EEE Pass Scheme Leader & Coordinator Manchester, UK**

* Lead the Peer Assisted Student Support scheme across the Electrical and Electronic Engineering Department, helping junior students navigate their 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](https://github.com/talhajamal11/Visualizing-an-Order-Book).

Practicing Data Structure and Algorithm Exercises from Jay Wengrow’s DSA Book – [Link](https://github.com/talhajamal11/Data_Structures_and_Algorithms).

**LANGUAGES**

English: Native, Urdu: Native, Pashto: Native

**CERTIFICATIONS**

Passed CFA Level 1, April 2022.

EXTRA CURRICULAR ACTIVITIES

* Committed to consistent endurance exercises with the goal of running in the 2025 London Marathon.