# **GRAHAM ELLINSON**

### Data Scientist

@ ellinsong@gmail.com

+972 584103504

🗞 www.grahamellinson.com

**EXPERIENCE** 

### Data Scientist

#### eToro

🛗 2020 – Present

♥ Tel Aviv, Israel

- Developed and implemented an Artificial Neural Network Algorithm to identify users at risk of cashing-out. Notifications are sent using A/B testing to validate results, achieving statistical significance.
- Conducted comprehensive market analysis using GARCH models for volatility forecasting and regime change detection, and performed liquidity analysis leveraging full L2 limit order book data to inform strategic trading decisions.
- Designed and optimized hedging algorithms using **Random Forest** and **LSTM RNN** machine learning models, resulting in reduced trading costs and improved risk management.
- Implemented advanced portfolio design strategies using **deep reinforcement learning**, increasing revenue while reducing computational latency.
- Led a team of five analysts during a maternity leave period, ensuring seamless project continuity, mentoring team members, coordinating tasks, and maintaining effective communication with upper management to meet critical deadlines.
- Migrated all existing processes to a new data platform (Azure Databricks), enhancing data processing efficiency and scalability.

### Data Analyst

🛗 Apr 2019 – Aug 2019

#### Explorium

**9** Tel Aviv, Israel

- Enriched clients data to provide an uplift in ML predictive metrics (AUC or  $\mathbb{R}^2$ ).
- Performed the full ETL enrichment (AWS) from inception to deployment.

### Data Analyst

#### I Know First

🛗 Oct 2018 – Apr 2019

Tel Aviv, Israel

• Extensive back-testing on different ML algorithms for portfolio management.

### **EDUCATION**

#### MSc in Artificial Intelligence (Distinction) University of Bath

🛗 2021 - 2023

Thesis: Application of Graph Theory in Bio-Informatics

BSc in Mathematics (First Class Honours) University of Northumbria Newcastle in linkedin.com/in/graham-ellinson-4624b1171

# SKILLS

Machine Learning Python R		
Reinforcement Learning		SQL
Matlab	Mathematica	SparkSQL
Tableau	Databricks	Deep Learning
PySpark		

## VOLUNTEERING

#### Mathematics Tutor

#### Action Tutoring

#### Mentor

# ARDC (African Refugee Development Centre)

2018 - 2019

♥ Tel Aviv, Israel

# LANGUAGES

- English (Native)
- Hebrew (Limited Working Proficiency)
- French (Conversational)

## PROJECTS

- MSc Thesis: Graph-Based Refinement of RNA-Protein Interaction Predictions: Improving Precision through Spectral Clustering
- BSc Dissertation: Advanced Regression Modelling for Machine Learning.
- Github Portfolio: github.com/graham-blip