Andrew Andreas

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WORK EXPERIENCE

The Blackstone Group **London, England**

Associate, Real Estate Private Equity *Oct 2021 – Jun 2024*

- Constructed detailed financial models for private real estate transactions, including acquisitions, developments, and value-add projects across logistics, student housing, residential, self and outdoor storage
- Utilized sell-side and company reporting for balance sheet and liquidity analysis, as well as income statement forecasts for ongoing valuation work for select public coverage names including: Safestore (SAFE: LON), Xior (XIOR: EBR), Shaftesbury Capital (SHC: LON), WDP (WDP: BRU) and Instone Real Estate (INSX: GER).

EDUCATION

Imperial College London **London, England**

MSc Computing (Artificial Intelligence and Machine Learning) – Distinction *Sep 2020 – Sep 2021*

- Developed a novel machine learning framework for financial forecasting, integrating data assimilation techniques with machine learning models. This framework combined the Kalman Filter for optimal data fusion, LSTM networks to capture temporal differences and Fractal Brownian Motion (FBM) simulations. Resulted in one-step and multi-step return sequences with lower MSE vs. LSTM and FBM alone
- Modules included Deep Learning (CNN's, RNN's and Transformers), Reinforcement Learning, Probabilistic Inference (Gaussian Processes & Variational Inference) and Computational Optimization

BSc Chemical Sciences with Management – First Class Honours (75% average) *Sep 2017 – Jun 2020*

SKILLS

Technical: Python (Pandas, NumPy, PyTorch, SciPy, scikit-learn), PostgreSQL, Excel

Mathematics: Linear Algebra, Calculus, Statistical Inference, Bayesian Statistics, Regression, Time Series Analysis

Financial: Discounted Cash Flow (DCF), LBO, Income Statement Modelling, Competitor Analysis

Languages: English (native), Greek (conversational proficiency)

PERSONAL PROJECTS

Predictive Inference of Private Market Fund Value

- Developed a predictive regression model to estimate future fund uplift from a time series dataset of VC and buyout funds, leveraging advanced private equity metrics (TVPI, DPI, RVPI) and machine learning algorithms (XGBoost)
- Conducted thorough exploratory data analysis, feature engineering, model validation and interpretability checks which highlighted greater predictive capabilities with VC funds with >73% prediction accuracy

Quantitative Finance - Financial Return Prediction

- Built a classifier to predict if a stock's return will be positive or negative over the $t+1^{th}$ period using the AlphaVantage API and the CatBoost algorithm. Program includes an API-interaction script to extract specified stock tickers for desired periods (daily / intraday) as well as computation of momentum factors

Sports Betting / Analytics (Boxing)

- Scraped several websites using Selenium to create a database of 100+ heavyweight boxers and over 150 bouts
- Developed over 40 additional boxer and bout-specific features and utilized several models such as logistic regression and DNN's to produce prediction probabilities using an ensemble forecast

AWARDS & LEADERSHIP

- **Academic Awards:** 2x Imperial College Dean's List (2018, 2019) / Imperial Best Group Thesis (2020) / Graduated from Hill College in 2016 with Summa Cum Laude Honours (4.0 GPA) / Best Student in Texas Government (2016)
- **Sports:** Awarded full basketball scholarship to #3 ranked junior college in the USA. Received three further scholarship offers after graduating (2x NCAA D2 / NAIA), 2x National Schools Basketball Champion (U15 & U17)

INTERESTS

- **Professional:** Continuous learning and development of mathematical, statistical and artificial intelligence knowledgebase and their applications to financial markets
- **Philanthropy:** Mentor students from low-socioeconomic backgrounds through SEO London as they navigate their early careers