# MAYSAM KHODAYARI

(412) 214-3241

www.linkedin.com/in/maysamkhodayari EDUCATION mkhodaya@andrew.cmu.edu

### CARNEGIE MELLON UNIVERSITY, TEPPER SCHOOL OF BUSINESS

Pittsburgh, PA

Master of Science in Computational Finance – Financial Engineering

12/2023

• Coursework: Stochastic Calculus, Optimization, Statistics/Machine Learning, Options, Fixed-income, Time Series, and Advanced Programming in Python, C++, SAS, SQL

#### UNIVERSITY OF TEHRAN

Tehran, Iran

Master of Business Administration in Finance

- Coursework: Accounting, Financial Reporting Analysis, Investment Management, Strategic Management
- **Publication**: An integrated fuzzy mathematics analytical network process for prioritization of new technology-based firms, January 2019, International Journal of Industrial and Systems Engineering

UNIVERSITY OF TABRIZ

Tabriz, Iran

Bachelor of Science in Industrial Engineering – Technology Engineering

#### **PROJECTS**

- Multi-factor Portfolio Optimization: Built PCA and cross-sectional risk models, generated, tested sharp ratio, and combined alpha factors including momentum, mean reversion, and overnight sentiment to estimate regularized weights of 490 US stocks
- Index-Tracking ETF: Designed, optimized and rebalanced passive ETF to track S&P500 index yielding in tracking error 0.05
- Interest Rate Evolution Process: Priced zero-coupon bond through simulating Cox–Ingersoll–Ross interest rate model with Euler, Milstein, and midpoint discretization schemes and leveraging Lamperti transformation and Richardson extrapolation
- Ongoing Machine Learning Capstone: Building a market-neutral portfolio through developing an ensemble of neural network, LGBM, and random forest to beat the target portfolio created by three benchmark models in a global US-based hedge-fund

# **EXPERIENCE**

Citigroup

New York, US

6/2023 - 8/2023

Quantitative Risk Management Intern

:- F----- --- A A -:-

- Credit Risk Analytics: Defined 390+ critical features to control credit risk of mortgage and card portfolios in Europe and Asia
- User Acceptance Testing: Set 550+ data quality rules for wealth management products to support data transformation
- Statistical Analysis: Coded statistical tests in Python, SAS, and SQL for 1.5 billion accounts in Europe, Asia, and Mexico

**Etebar Asset Management** 

Tehran, Iran

Investment Officer

3/2018 - 7/2022

- **Investment Management:** Performed investor risk appetite evaluation, fundamental analysis, and NAV estimation of bonds and equities to build risk-relevant portfolios for individual and institutional investors
- **Product Development and Regulation:** Designed and established two mutual funds and an ETF for pooling retail funds through cross-functional operations including preparing and presenting investment methodology, sales and trades process with brokers, performing attribution analysis, and monthly fund reviews
- Capital Fund Raising: Completed fund-raising presentations and negotiations to family offices, pension funds, and High-Net-Worth Individuals resulting in raising \$30 Million asset under management
- **Teaching Fund Operations:** Taught fund accounting principles and daily NAV estimation to a group of software engineers and data analysts, MBA, accounting, and finance new hires to develop trading platform for fixed-income mutual fund

## **Tamadon Asset Management**

Tehran, Iran

Associate of Investment Funds

3/2015 - 2/2018

- Multi-manager Investment: Designed a regulated fund of funds enabling asset management companies to aggregate funds to invest in private and public markets through one single investment vehicle
- Venture Capital Fund: Executed investment pitches, due diligence, writing NDA and SHA documents and valuation reports for SMEs in health care, FinTech, food, polymer, and transportation

### **Arman Sharif Consulting**

Tehran, Iran

Senior Analyst

3/2013 - 2/2015

- **Auditing:** Generated innovative due diligence reporting system for 64 Small and medium-sized enterprises and mezzanine firms operating in polymer, health care, pharmacy, food, AI, transportation, steel, electricity, and telecommunication
- Valuation analyst: Completed capital market accounting and merger and acquisition rotations and prepared my first valuation report for Snap application, the local version of Uber
- Leadership: Led teams of experts in engineering and finance to accomplish due diligence using Porter's five forces model