MOHAMMADAMIN MOGHADASI

ML & Data Scientist

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HIGHLIGHTS

- **Machine Learning Experience** : 1+ years developing and deploying advanced machine learning pipelines, driving innovation and efficiency in model development.
- **Strategic Market Analysis:** +2 experience in Identifying key industries in the Iranian stock market, producing insightful reports through fundamental and technical analyses, influencing strategic decisions.
- **Marketing and Client Support:** +8 month experience in providing vital customer support for market transactions, ensuring seamless experiences for investors.
- **Profitable ML-Driven Model:** Built a Python-based machine learning model with technical analysis, consistently outperforming stock market returns within specific timeframes.
- **Financial Econometric Evaluation:** Proficiently evaluated Tehran Stock Exchange's data using Eviews software, extracting actionable insights through financial econometric theories.

EDUCATION

Kharazmi University of Tehran

Master of Financial Engineering
GPA: 17.42/20
2020 – Present

University of Sistan and Baluchestan

Financial Management
GPA: 18.87/20
2015 – 2019

SKILLS

- **Programming/Scripting**
  - Python- Machine Learning
    - Scikit-Learn
    - TransFlow
    - Pandas
    - Numpy

  - **Python- Data visualization**
    - SeaBorn
    - Matplotlib
- **Eviews**
- **MATLAB**
- **LaTeX**
- **Git**
- **Linux**
- **Financial analysis**
  - Fundamental analysis
  - Technical analysis
  - Analysis of financial statements
  - Analysis of stock market industries
    - steel
    - basic metals
    - petrochemical
    - food industries

PROFESSIONAL EXPERIENCE

Work experience

Iranian Health Insurance Capital Management Company
Financial Analyst
2020 - 2021

- Conducted comprehensive analyses of global markets, with a primary focus on commodities, under the guidance of Prof. Mehdi Delbari.
- Identified and assessed leading industries within the Iranian stock market, employing a blend of fundamental and technical analysis methodologies.
- Developed in-depth analytical reports on companies operating within prominent industries, utilizing a combination of fundamental data and technical indicators.
- Contributed insights instrumental in shaping investment strategies and market outlooks, providing valuable guidance for stakeholders and decision-makers.
- Collaborated with a diverse team to synthesize complex market data into actionable recommendations, fostering a deeper understanding of market dynamics.

Mofid Securities
Customer Service Expert
2019-2020

- Our main activity in this company included marketing for the company's investment funds and supporting customers to buy and sell shares in the market.

CERTIFICATIONS

Udemy - Complete Guide to TensorFlow for Deep Learning with Python

Udemy - Complete Python Bootcamp: Go from zero to hero in Python 3

Udemy - Python Beyond the Basics - Object-Oriented Programming

Udemy - Data Analysis Course with Pandas : Hands on Pandas, Python

Udemy - Linux Mastery: Master the Linux Command Line in 11.5 Hours

Udemy - Linux Administration Bootcamp : Go from Beginner to Advanced

Udemy - Git Complete

Coursera - Machine Learning

Coursera - Python for Everybody Specialization

Coursera - The Data Scientist's Toolbox

IranFinancialCenter -Comprehensive fundamental analysis

IranFinancialCenter -Comprehensive industry analysis

LANGUAGE

TOEFL iBT Test
- Overall : 100
  - Reading : 27
  - Listening : 27
  - Writing : 24
  - Speaking : 22

PROFESSIONAL EXPERIENCE

Academic experience

Advanced Investment Management Courses
Student
2021-2022

- **Project Title:** Enhanced Stock Portfolio Optimization through Financial Feature Extraction and Machine Learning
  - During this project, conducted using Python, our team developed a sophisticated model leveraging machine learning techniques and technical analysis indicators. This model demonstrated the potential to consistently outperform the stock market within a specific timeframe. Under the guidance of my Professor, we successfully created a robust framework that aimed at maximizing returns through strategic portfolio selection.
  Supervisor: Prof.Kamran Pakizeh

Financial Econometrics
Student
2019-2020

- **Project Title:** Financial Econometrics Analysis of Tehran Stock Exchange
  - Utilizing Eviews software, our project delved into the empirical evaluation of Tehran Stock Exchange data through the lens of financial econometric theories. Under the guidance of my Professor, we conducted a comprehensive analysis to derive valuable insights from the market data.
  Supervisor: Prof. Ebrahim Aghababaie

Master's Thesis
Student
2022-2023

- **Thesis** : My thesis revolves around implementing a machine learning model for continuous-time series within a 10-year span in the Iranian stock market. Initially, I identify periodic features affecting stock returns, then employ machine learning techniques to classify them based on the probability of positive intervals in the subsequent timeframe. Finally, to mitigate portfolio risk while maximizing the Sharpe ratio, I select the equity basket's weightings. This model incorporates various machine learning methods alongside classical statistical approaches, ultimately allowing a comparative analysis of their individual performances.
  Supervisor: Prof.Kamran Pakizeh