Nikolaos (Nikolas) Oikonomou

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EDUCATION

The University of Chicago
Master of Science in Financial Mathematics

Chicago, IL
Expected December 2025

- Courses: Probability and Stochastic Processes, Computing for Finance in Python, Option Pricing, Portfolio and Risk Management
- Awards: Alpha Scholar

The American College of Greece
Non-Degree Student (GPA: 4.0/4.0)

Athens, Greece
April 2024

- Courses: Principles of Macroeconomics, Financial Markets and Instruments, Investment Analysis and Management

Maastricht University
Bachelor of Science in Data Science (GPA: 3.66/4.0)

Maastricht, Netherlands
June 2023

- Courses: Linear Algebra, Discrete Mathematics, Mathematical Statistics, Statistics and Probability, Calculus, Data Structures and Algorithms, Machine Learning
- Awards: Honors Program, Top 25% of Students

SKILLS

Computing: Python, Pandas, Numpy, Scipy, Sklearn, Git, Sql, MS Office
Knowledge: Machine Learning, Statistical Modeling, Data Analytics, Financial Markets

EXPERIENCE

Augmenta
Junior Data Scientist

Athens, Greece
April 2021 - October 2021

- Developed machine learning driven solutions to assess if grapes can be detected in vineyards in various environmental conditions and from different angles as part of company's R&D for product expansion
- Created a white box machine learning model using traditional image processing techniques HSV transformation and Otsu's method for automatic image thresholding
- Implemented two CNN models by applying transfer learning on Yolov3 and Mask R-CNN deep neural networks. Achieved accuracy of 90% in test set
- Conceived and designed a real-time GPS-based algorithm for parallel path identification of tractors. Coordinated with data science team to implement and deploy solution to production, resolving critical product issue

Q-Park
Data Science Intern

Maastricht, Netherlands
September 2019 - February 2021

- Developed time series models to predict future occupancy rates for company's European parking facilities
- Modeled customer behavior patterns in company's parking facilities using clustering techniques such as K-means clustering, Hierarchical Clustering and DBSCAN
- Introduced novel metrics to capture track customer retention and profitability broken down by customer segment, drove multiple changes to company's global pricing policy
- Created daily reporting system sent to company's C-suite executives, currently one of main tools used to track company performance

EXTRACURRICULAR

Numer.ai's Data Science Competition
Personal Research Project

Athens, Greece
May 2024 - Present

- Developing linear and tree-based models for predicting future returns on real-world anonymized financial data provided by Numerai's data science competition, and experimenting with correlation structures and feature engineering

ADDITIONAL INFORMATION

Languages: Greek (native)
Interests: Chess, poker and other card games, basketball