

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SLOAN SCHOOL OF MANAGEMENT Cambridge, MA
Candidate for Master of Business Analytics, Operations Research Center, August 2024 2023 - Present

- Coursework: Machine Learning Under a Modern Optimization Lens, Optimization Methods, Analytics Lab, Analytics Edge
- Optimization Project: Mixed-integer model for employee retention and financial health strategy during a merger
- Machine Learning Project: Holistic Framework optimal classification trees with hyperplanes for improved interpretability
- Analytics Edge Project: Skill gap identification and salary prediction based on 2022 Glassdoor job postings

ÉCOLE POLYTECHNIQUE Palaiseau, France
B.S. in Mathematics and Computer Science, cum laude (3.8/4.0) 2020 - 2023

- Coursework: Analysis, Algebra, Statistics, Probability, Computer Architecture, Cryptography, Image Analysis, Algorithms
- Awarded outstanding student distinction for community involvement
- Thesis: Predicting accuracy of artificial neural networks (A+)

TECHNICAL SKILLS

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- Python (PyTorch, Sci-kit learn, Tensorflow, Matlab), SQL, R, Julia (Gurobi, Interpretable AI), C++, Git, Angular

EXPERIENCE

MIT OPERATIONS RESEARCH CENTER Cambridge, MA
Research Assistant to Professor Georgia Perakis (Python) 2023 - Present

- Applying prescriptive machine learning techniques (causal forests, random forests and CART) to patient demographic, genomic and image data to assist individualized ovarian cancer treatment, in collaboration with Koch Institute
- Developed a theoretical error bound for hierarchical time-series forecasting using decision trees

MIT SLOAN/AKKODIS Cambridge, MA
Subsidiary of Adecco Group, technology and digital engineering consultancy
Analytics Lab Team Member (Python, Gurobi) Fall 2023

- Awarded 1st place out of 22 at the MIT Initiative for Digital Economy Analytics Lab 2023
- Developed multi-objective network flow model to optimize location of multi-modal mobility hubs in Leuven
- Utilized model results to devise transportation shift strategy, with expected 12% reduction in CO2 emissions

ÉCOLE POLYTECHNIQUE - LABORATOIRE D'INFORMATIQUE Palaiseau, France
Research Assistant to Professor Leo Liberti (Python) Winter 2023

- Investigated impact of alignment of training and testing node values on neural network prediction accuracy

EASYPAY Tirana, Albania
Digital payment platform and e-wallet solution, official Albanian partner of Ria Money Transfer
Machine Learning and Data Analysis Consultant (Python) 2022 - 2023

- Designed a credit scoring model leveraging recency, frequency, and monetary analysis coupled with k-Means clustering to assign overdraft privileges
- Developed algorithm to link utility payments to individual customers, enabling comprehensive behavioral analysis of over 1 million transactions performed by 60,000 users over 13 years

FACILIZATION Tirana, Albania
Leading banking software solutions provider
Junior Software Developer (Jenkins, Talend OS, SQL) 2022 - 2023

- Implemented data migration, transformation, and validation Talend flows, leading to a 12% reduction in data errors
- Automated code building and testing using Jenkins, saving 10 hours of developer time per week

LUFTHANSA INDUSTRY SOLUTIONS Tirana, Albania
Software Development Intern (Angular) Summer 2021

- Developed reactive ticket-management system for smoother task management, assignment, and tracking

ADDITIONAL INFORMATION

Languages: Albanian (Native), French (Fluent), Italian (Beginner), Spanish (Beginner)

Interests: Piano (Tsakalov Music Conservatory Graduate), Cooking, Public Speaking, Travelling