

JOSEPH “JOE” KAJON

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[LinkedIn](#) | [Portfolio](#)

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SLOAN SCHOOL OF MANAGEMENT Cambridge, MA
Candidate for Master of Business Analytics, Operations Research Center, August 2024, GPA 4.9/5.0 2023 – Present

- Coursework: Machine Learning, Optimization Methods, Advanced Analytics Edge, Hands-On Deep Learning
- ML Project: Utilized NFL dataset of 10,000+ plays to predict the probability of defensive tackles achieving AUC of 88% using Logistic Regression, CART, Random Forest, XGBoost, and Optimal Classification Trees (Python)
- Deep Learning Project: Fine-tuned LLMs (GPT, LLaMa 2, Gemma/LoRA) for recipe generation (Python)
- Leadership: Vice President MBAn Class '24, Sloan Senate (Nominated and elected by peers)

SETON HALL UNIVERSITY South Orange, NJ
B.S. in Mathematics and Financial Mathematics, minor in Data Science and Philosophy, GPA 3.96/4.0 2019 – 2023

- Relevant coursework: Real Analysis, Statistical Analysis, Financial Engineering, Text Mining, Abstract Algebra
- Leadership: Co-Chair of Student Activities Board (organized campus events with over 1,000 students attending)
- Teaching Assistant: Peer Advisor (guided 35+ freshmen as they transitioned to college, co-taught University Life class)

TECHNICAL SKILLS

- Python (Pandas, NumPy, Selenium, PyTorch, TensorFlow), R, SQL, PowerBI, Julia (JuMP, Gurobi), Mathematica

EXPERIENCE

MIT SLOAN / BLUE HEALTH INTELLIGENCE Cambridge, MA
Data Science Intern, Capstone Project February 2024 – Present

- Apply transformer and LLM-based methods (Phi-3, LLaMa, Mistral) to enhance personalized healthcare recommendations by predicting future patient care events and assessing the impact of various interventions (Python)

MIT OPERATIONS RESEARCH CENTER Cambridge, MA
Research Assistant to Professor Alexandre Jacquillat Sep 2023 – Present

- Optimize shared rides with up to four requests in real-world scenarios from NYC taxi data of 900+ requests (Julia)
- Develop ride-sharing benchmarks using shareability networks for a demand-responsive microtransit system analysis

MIT SLOAN | LINEAGE LOGISTICS Cambridge, MA
Analytics Lab Team Member Sep 2023 – Dec 2023

- Predicted revenue for new customers, improving accuracy by 40%, through an ensemble method combining best XGBoost and Random Forest models (Python)
- Analyzed over 1.1M+ orders to display seasonality trends and identify growth areas for warehouses

SETON HALL UNIVERSITY South Orange, NJ
Research Assistant to Professor Hongfei Tang (Chair of Finance Department) Nov 2022 – May 2023

- Spearheaded web scraping initiative on 1,300+ employment opportunities and 40+ class syllabi and utilized NLP models (n-gram) to identify how well class curriculums compared to job prospects (Python, Selenium)
- Communicated growth areas in business curriculum to senior University leaders (Provost, Dean of Business School)

PRUDENTIAL FINANCIAL Newark, NJ
Actuarial Intern (Individual Life Insurance Modeling) Summer 2022

- Optimized data manipulation for model inputs, reducing runtime from 5 hours to 2 min for actuarial model team (Python)
- Presented key insights and knowledge transfers to Directors, VPs, and the Leader of Actuarial Enterprise Capabilities, adapting the presentations to communicate data to varying audiences

MILLIMAN Little Falls, NJ
Actuarial Intern (Pension Consulting) May 2021 – April 2022

- Automated the calculation of 200+ benefit calculations, reducing runtime from 6 hours to 10 minutes (SQL, VBA)
- Transformed actuarial datasets of retirement information and pension plans into actionable insights and narratives for clients through a PowerBI dashboard, communicating the funded status of client pension plans

ADDITIONAL INFORMATION

- Interests: Rediscovering music (streaming Lauryn Hill, Beatles, and Amy Winehouse!), trivia, and sunset walks