JOSEPH "JOE" KAJON

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LinkedIn | Portfolio

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SLOAN SCHOOL OF MANAGEMENT   Cambridge, MA
Master of Business Analytics, Operations Research Center, Expected August 2024, GPA 4.9/5.0   2023 – Present
- Coursework: Machine Learning, Advanced Analytics Edge, Optimization Methods, 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 & elected by peers to communicate class needs)

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, Data Mining
- 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, PyTorch, TensorFlow, scikit-learn, Selenium), R, SQL, PowerBI, Julia (Gurobi, JuMP)

EXPERIENCE

MIT SLOAN | BLUE HEALTH INTELLIGENCE   Cambridge, MA
Data Science Intern, Capstone Project   Feb 2024 – Present
- Apply scalable LLM models (Phi-3, LLaMa, Mistral) to enhance personalized healthcare recommendations, predict annual patient claims, evaluate intervention impacts with health metrics, and apply causal inference techniques
- Collaborate with cross-functional teams to integrate machine learning solutions into healthcare guidance (Python)

MIT OPERATIONS RESEARCH CENTER   Cambridge, MA
Research Assistant to Professor Alexandre Jacquillat   Sep 2023 – Present
- Optimize rideshare routes for 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
- Analyzed 1.1M+ orders to identify growth areas for warehouses and predicted revenue for new customers, improving accuracy by 40%, through an ensemble method combining best XGBoost and Random Forest models (Python)
- Collaborated with product and data science teams to understand and translate business and technical requirements into data analysis and insights, presenting findings to senior stakeholders (VP of Data Science)

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 to compare class curriculums to job prospects, creating project roadmaps and delivery timelines (Python)
- 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)   May 2022 – Aug 2022
- Optimized data pipeline 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 – Apr 2022
- Automated the calculation of 200+ benefit calculations, reducing runtime from 6 hours to 10 minutes (SQL, VBA)
- Visualized actuarial datasets of retirement information and pension plans into actionable insights and interpretable 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