

MAXIME WOLF

Cambridge, MA

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EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SLOAN SCHOOL OF MANAGEMENT

Cambridge, MA

Candidate for Master of Business Analytics, Operations Research Center, August 2024 (GPA: 5.0/5.0)

2023 - Present

- Coursework: Machine Learning, Optimization Methods, Analytics Edge, Analytics Lab, Analytics to Action
- ML project: Enhanced diabetes treatment decisions with optimal policy trees for healthcare professionals (Julia)
- Analytics project: Predicted song popularity with an ensemble approach; used XGBoost, SVM, and linear models (Python)
- Google x MIT Sloan Product Hackathon: built GenAI-powered marketing tool for SMBs; ranked 2nd/30 teams (\$3000 prize)
- Activities: Technology Club, AI/ML Club, Consulting Club
- Harvard University: Cross-registered for the “Unleashing Novel Data at Scale” course

CENTRALESUPELEC, PARIS SACLAY UNIVERSITY

Gif-sur-Yvette, France

BSc in Engineering, MEng in Applied Mathematics (GPA: 4.2/4.3; top 5% of the class)

2020 - 2023

- Coursework: Deep Learning, Advanced Statistics, Advanced Probability, Algorithmics, Statistics in Finance
- ML contest: Led team to 1st rank among 250, classified geographical areas, achieved 72% F1-score with XGBoost (Python)
- Research: Studied quantum machine learning methods to improve forecasting models deployed by EDF (electricity supplier)
- Activities: AI Club trainer and teacher, coached 20+ students in Computer Vision and NLP methods

TECHNICAL SKILLS

- Python (pandas, scikit-learn, TensorFlow, PyTorch, Transformers), SQL, R, Julia (JuMP, Gurobi), Git

EXPERIENCE

MIT SLOAN | COMCAST

Cambridge, MA | Philadelphia, PA

Data Scientist Intern, MIT Capstone Project (Python)

2024 - Present

- Developing real-time models to predict customer intent from call transcripts and metadata, aimed at reducing churn rate

MIT OPERATIONS RESEARCH CENTER

Cambridge, MA

Research Assistant to Professor Georgia Perakis (Python, Gurobi)

2023 - Present

- Collaboration with IBM Research on end-to-end learning methods for decision making under endogenous uncertainty
- Integrating multi-armed bandits' and offline learning optimization methods, outperforming traditional methods by over 20%

MIT SLOAN | CMA CGM

Cambridge, MA

Analytics Lab Team Member (Python, NLP)

Fall 2023

- Built an AI email assistant tool; utilized similarity detection models and LLMs (GPT-3.5) with Retrieval Augmented Generation (RAG); boosted 400+ customer agents' productivity by 38%; resulted in \$2.2M/year in productivity gains
- Created a Streamlit product prototype and presented to the Director of Data Strategy and Innovation; ranked 3rd/22 teams

THE APPLIED AI COMPANY (AAICO)

Dubai, UAE

Venture focused on automating human processes within healthcare, government, and insurance sectors

ML Engineer Intern | Part-time ML Engineer (Python)

2022 - 2023

- Leveraged Transformers (ClinicalBERT) and Graph Neural Network models to extract adverse effects of drugs from medical literature; saved 80% reviewing time to customers by streamlining the analysis process
- Conceptualized and developed multi-modal AI pipeline for a \$60M project; utilized Twitter API and graph-based models to identify bot behaviors on key topics with 70% accuracy; successfully deployed models in AWS production environment

PARIS DIGITAL LAB

Paris, France

Creativity lab where trainees work full-time and collaboratively with corporations to prototype new usages

Data Scientist (Python, SQL)

Spring 2022

- Developed an iOS application for start-up OOrion to help visually impaired people detect objects; applied YOLOv5 model to achieve real-time and 90% accurate predictions; prototype now integrated into a product sold by start-up
- Analyzed customer insights from phone calls for an insurance company; performed Speech-to-Text and entity/relationship extraction with CamemBERT; reached 92% F1-score and communicated results to the AI department

ADDITIONAL INFORMATION

- Coursera Certificates: Machine Learning Course (Stanford University); Deep Learning Specialization (DeepLearning.AI)
- Languages: French (native), German (intermediate)
- Interests: piano (twelve years in a music conservatory), badminton, traveling, casual technology blogger