

# 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 a stacking approach; used XGBoost, SVM, and linear models (Python)
- Google x MIT Sloan Product Hackathon: built GenAI-powered marketing tool for SMBs; ranked 2<sup>nd</sup>/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 1<sup>st</sup> 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, AWS

## EXPERIENCE

**MIT SLOAN | COMCAST** Cambridge, MA | Philadelphia, PA  
*Data Scientist Intern, MIT Capstone Project (Python)* 2024 - Present

- Analyzed call transcripts and metadata to design predictive features for customer intent modeling, aiming to reduce churn
- Utilized Llama for embedding extraction; designed a multimodal classification approach integrating textual and tabular data

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

- Collaborated with IBM Research on end-to-end learning methods for decision-making under endogenous uncertainty
- Integrated joint optimization methods for pricing, improving traditional multi-armed bandits’ methods by over 20%

**MIT SLOAN | CMA CGM** Cambridge, MA  
*Analytics Lab Team Member (Python)* 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 3<sup>rd</sup>/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, Neo4j, AWS)* 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 with human-in-the-loop corrections
- Developed an AI-driven analytics solution for a \$60M project; utilized real-time Twitter data and multimodal models to identify bot behaviors on key topics with 70% accuracy; deployed an API and 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 Intern (Python, SQL)* Spring 2022

- Led the development of an iOS application for start-up OOrion to help visually impaired people locate 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 a large insurance company; performed Speech-to-Text and entity/relationship extraction (CamemBERT); reached 92% F1-score and communicated results to the AI department

## ADDITIONAL INFORMATION

- Languages: French (native), German (intermediate)
- Interests: piano (twelve years in a music conservatory), badminton, traveling, casual technology blogger