# MAXIME WOLF

San Jose, CA

maxwolf34@gmail.com | linkedin.com/in/maxime-wolf | maximewolf.com


## EDUCATION

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY, SLOAN SCHOOL OF MANAGEMENT** Cambridge, MA

*Master of Business Analytics, Operations Research Center, August 2024 (GPA:5.0/5.0)* 2023 - 2024

- 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
- 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)

## TECHNICAL SKILLS

- Python (pandas, scikit-learn, TensorFlow, PyTorch, Transformers, LangChain), SQL (BigQuery), GCP, Seldon, Docker, Git

## EXPERIENCE

**PAYPAL** San Jose, CA

***Machine Learning Engineer*** Sept 2024 - Present

- Designed and deployed large-scale ranking models for click-through rate (CTR) prediction in PyTorch to personalize product recommendations; engineered 100+ features in SQL (BigQuery) and served low-latency inference via Seldon
- Trained large transformer-based foundation models at scale on billions of PayPal transactions to generate user embeddings and power downstream personalization tasks; presented outcomes to Head of AI and CTO
- Built PayPal's first agentic shopping assistant using LangChain with integrated catalog search; optimized latency and memory management for real-time usage and implemented LLM-based evaluation for iterative refinement

**MIT SLOAN | COMCAST** Cambridge, MA | Philadelphia, PA

***Machine Learning Engineer Intern, MIT Capstone Project (Python)*** Feb 2024 – Aug 2024

- Developed a multimodal churn prediction model combining call transcripts and customer profile data; boosted prediction lift +42% during calls (real-time) and +48% post-call vs. baseline, enabling agents to tailor offers and follow-ups
- Implemented XGBoost on top of LLaMA-derived text embeddings and tabular features; built Databricks pipelines for feature engineering, model training, and batch/real-time scoring, with automated KS/lift tracking for rapid iteration

**MIT OPERATIONS RESEARCH CENTER** Cambridge, MA

***Research Assistant to Professor Georgia Perakis (Python, Gurobi)*** Sept 2023 – June 2024

- 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 3rd/22 teams

**APPLIEDAI** Abu Dhabi, UAE

Startup backed by $40M+ in funding, focused on automating workflows in healthcare, government, and insurance sectors

***ML Engineer Intern | Part-time ML Engineer (Python, Neo4j, AWS)*** Aug 2022 – June 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

## ADDITIONAL INFORMATION

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