

Amine Jelloul

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TECHNICAL SKILLS

Machine Learning & AI: LLMs, multimodal models, representation learning, fine-tuning, evaluation design, experimentation, error analysis

ML Systems & MLOps: model deployment, monitoring, telemetry, experiment tracking, versioning, data validation, scalable training pipelines

Software Engineering: Python, backend systems, API design, modular architecture, testing, performance optimization

Data & Infrastructure: SQL, relational databases, feature pipelines, cloud ML systems, containerized deployments

Product & Collaboration: production ownership, cross-functional development, iterative model improvement

PROFESSIONAL EXPERIENCE

Machine Learning Engineer

San Francisco, CA

Docugami

Jan 2025 – Present

- Designed and productionized LLM/VLM pipelines for document understanding and reasoning over complex PDFs, processing millions of documents and pages in production workflows.
- Built scalable multimodal systems combining OCR, layout parsing, retrieval, and transformer models to support structured extraction and question answering across heterogeneous document formats.
- Led evaluation and MLOps workflows including metric design, experiment tracking, dataset iteration, and prompt/retrieval optimization, improving task reliability by 30%+ and reducing failure cases in production.
- Implemented robust backend inference pipelines with structured outputs, versioning, and monitoring, enabling reliable deployment of AI features used by enterprise customers.

Machine Learning Engineer

San Francisco, CA

TextMe

Sept 2024 – Jan 2025

- Developed and deployed personalization and user segmentation models impacting millions of users, increasing engagement by 15%.
- Designed A/B experimentation pipelines evaluating ML-driven features, driving +10% ad conversion and +5% revenue uplift.
- Productionized ML experimentation workflows with Python and Weights & Biases, accelerating iteration cycles and improving reproducibility across models.

Machine Learning Researcher

Berkeley, CA

NeurIPS (Supervised by Yunkai Zhang)

Aug 2023 – Jan 2024

- Developed *Insight Miner*, a multimodal model generating domain-specific time-series insights from a dataset of 100k time-series/text pairs.
- Integrated large language models with classical time-series decomposition, outperforming baseline multimodal systems including LLaVA-style approaches.

Machine Learning Engineer

Paris, France

Orange

Sep 2022 – Aug 2023

- Built PyTorch forecasting systems for 100k+ telecom time series predicting network congestion, enabling optimized infrastructure planning and \$1M+ annual savings.
- Reduced large-scale data processing time by 50% through optimized PySpark pipelines.

Software Engineering Intern

Paris, France

TOPI

Jun 2022 – Aug 2022

- Developed FastAPI backend serving 15k+ daily requests and integrated ML services into production APIs.

Data Scientist Intern

Paris, France

Acolyt

Jun 2021 – Aug 2021

- Built forecasting models reducing logistics costs by 20% and redesigned PostgreSQL schema improving processing performance by 50%.

EDUCATION

UC Berkeley

Berkeley, CA

Master's Degree in Operations Research

GPA: 4.0

Arts et Métiers Institute of Technology

Paris, France

BSc & MSc in Operations Research

GPA: 4.0