

KARL SALIBA

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PROFILE

Data Scientist specialized in fraud detection and sentiment analysis using LLMs, with experience in developing and deploying production-ready models in the insurance sector.

PROFESSIONAL EXPERIENCE

Data Scientist (Cov  a Groupe)

Jan 2026 - Present

- End-to-end management of advanced fraud detection models (design, deployment, monitoring) in a production environment.
- Built and deployed machine learning pipelines from scratch, helping position fraud as a strategic driver of innovation.
- Generated significant business value: several million euros recovered at MAAF and financial gains at GMF through highly predictive scoring models.
- Optimized business processes: up to 3  faster alert processing and improved detection through close collaboration with fraud experts.

Machine learning Engineer (Cov  a Groupe)

Apr 2025 - Sep 2025

- Fine-tuned and adapted LLMs (Mistral, CamemBERT, GPT) for classification and generation use cases, optimizing performance on complex business data.
- Industrialized automated text classification: batch processing of thousands of claims, reducing annotation time drastically (~90s   instant), and accelerating the overall process up to 100 .
- Designed evaluation frameworks (accuracy, latency, robustness) and achieved ~80% average performance across 40 labels, enabling reliable, data-driven model monitoring.
- Structured classification plans and taxonomies using AI (prompt engineering, explainability), improving business alignment and annotation standardization.

EDUCATION

Engineering Degree

Sep 2023 - Sep 2025

Centrale Nantes

- Specialization in Artificial Intelligence.

Engineering Degree

Sep 2019 - Sep 2025

Lebanese University

- Specialization in Telecommunications.

ADDITIONAL INFORMATION

- **Technical Skills:** Python, R, Java, C#, C++, MATLAB, PyTorch, TensorFlow, scikit-learn, Transformers (Hugging Face), Pandas, NumPy, XGBoost, SQL (MySQL, PostgreSQL), MLflow, LangChain, VLLM, ollama, llama.cpp, Kubernetes, LangGraph, Grafana, GitLab CI/CD, MLOps, Jupyter, Linux, GitHub, Statistics, Optimization, Reinforcement Learning.
- **Languages:** English, French, Arabic
- **Certifications:** Neural networks and deeplearning (DeepLearning.AI), Improving Deep NeuralNetworks: HyperparameterTuning, Regularization and Optimization(DeepLearning.AI),Structuring MachineLearning Projects(DeepLearning.AI).