

PHILEAS CONDEMINE

In short

2021-Now **Lead ML-Engineer NLP @ COVEA** : Delivering **Hybrid AI and Gen-AI** Efficient and **Frugal** Solutions in **Production** with **Azure, OpenAI & Databricks**.

2028-2021 **Senior Data Scientist @ Ministère de la Santé** : Modelling **Health Sequences** with **Transformers**. Help **Data-driven** decision-making during **CoViD-19** crisis.

2014-2017 **Actuarial Data Scientist @ AXA** Global P&C : **pricing** and **claims handling** with **machine learning** and **external data**.

EXPERIENCE

2021-
Now

Lead ML-Engineer NLP



COVEA - AI Delivery

Paris, France

- **VOX.IA** : Client Verbatim Analysis. **AI Award-Winning Project**
- **NetMessages** : Offer real-time selfcare offer to the client with **Frugal AI**.
- **JudiCible** : Accelerate Claim Management with AI & Gen-AI Hybrid approach.
- **AI in Production** : Annotation, Finetuning, Deployment, Drift-Monitoring.
- Publication on [Medium](#) COV&IA

2018-
2021

Senior Data Scientist & (EIG)



Ministry of Health

Paris, France

- **Modelling Health Sequences** to predict diseases outcome and detect disruption.
- **Classification** with **active-learning** & **General Public WebApp** to find Health-focused statistics.
- Tools for regional health agencies : **Interactive Decision Making Tool** to help experts elaborate Zoning for health professionals.
- Tech Lead at **CoViD-19 crisis center** : develop webapps to gather critical information from [hospitals](#) and [labs](#).
- **Workflow** to build **CoViD-19 Indicators** with **SIDep**, **SIVic**, **VacSI**.
- Produce *open-data* with anonymisation : **k-anonymity** & hierarchical I-diversity.

2014-
2017

Actuarial Data Scientist



AXA Global P&C

Paris, France

- **P&C pricing innovation** with **gradient boosting** and **ML-interpretation** / **XAI** techniques.
- Build and deploy **Claim Cost Analyzer** : **ML workflow** to score car repairers cost-efficiency.
- **NLP** on **bodily injury cases** to assess contentious risk.
- **Roads own-risk assesement** based on GPS **Telematics** data.

2014

Actuarial Thesis



AXA Belgium

Remote

Elderly drivers own-risk assessment - **SCOR prize finalist**.

[Voir en français](#)

[Download the PDF on Github](#)



CONTACT

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SKILLS

Python & R Expert


Gen-AI : Summary, Auto-Label, Auto-Define, Key Info Extraction.

Deep-learning with Pytorch & Transformers : Classification.

Machine-learning with GLM, XGBoost/GBM, SVM : pricing, claims handling, fraud, churn.

Big Data with Spark

Dataviz with Python (Streamlit) & R (Shiny)

2012 ● **CAT-Bonds Pricing Intern (6 months)**
 **SCOR**
 Pricing CAT-Bonds using Monte-Carlo Markov Chains MCMC
 Paris, France

TRAINING



● **Generative AI**
 RAG, Finetuning, Prompt-engineering [deeplearning.ai](https://www.deeplearning.ai) 2023-2024

2017-2020 ● **Deep learning**
 Advanced training & hands-on projects fast.ai, [datascientest](https://www.datascientest.com), [deeplearning.ai](https://www.deeplearning.ai)

2019 ● **Spark & Scala**
 Scala Programming + Spark applications
 Coursera by Martin Odersky & Heather Miller



2016 ● **Web Development**
 Introduction to HTML, CSS, Javascript & JQuery.
 CodeSchool.com

2014 ● **Introduction to data science**
 Main techniques of supervised & unsupervised learning : **SVM, Gradient-Boosting, Random Forests, k-means** etc.
 Coursera by Bill Howe

2010-2014 ● **ENSAE Paris - IP Paris**
  **MSc Actuarial Science & Data Science**
 Paris, France

TEACHING

2023-2025 ● **Gen-AI Masterclass (COVEA)**
 Gen-AI theory and practice. Applications with Copilot. Scaling with Azure OpenAI. **Prompt-engineering**.
 COVEA

2014-2020 ● **Data Science Teacher**
 Data-Science for Actuaries &  Data Science Certification
 Paris, France

- **Natural Language Processing** & Text-mining techniques
- **Machine Learning** for structured data : Gradient Boosting & Support Vector Machine
- **Data Science Hands-On** with R, data.table, xgboost, glmnet & liblinear...
- **Build Interactive Apps** with R + Shiny
- **Data Science for Actuaries (DS4A)**: 5-days training with hands-on & 1-day hackathon to teach AXA actuaries Data-Science Techniques that can help them better solve Insurance-related problems. The Theoretical Training was given by [Arthur Charpentier](#).

OTHER PROJECTS

I love to hack new data and therefore participated in many Hackathons & Kaggle competitions

Kaggle : **AXA** "Telematics", **Otto** "Product Classification", **Quora** "Deduplication", West Nile Virus "Mosquito detection".

Hackathon Gen-AI @ COVEA "SAS to Python with LLMs" (oct. 2024)

Hackathon @ ACPR TechSprint Gen-AI (feb 2024)

Hackathon Model Winner @ COVEA "Churn Prediction and Mitigation" (2023)

Hackathon @ AXA "Chatbot for fast-quote with API.AI"

Hackathon @ APHP "Night-time-Treatment Outliers Detection in Intensive Care"

Hackathon @ ARS-IdF "Environmental Factors of ER admissions".

Space Invaders Map

Programming a 4-wheel autonomous mini-car with Arduino.

Contribution to Open Project [Buloterie](#).

This resume was built with [R pagedown](#).

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