

# 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**.

2018-2021 **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



2023-2024 ● **Generative AI**  
LLM, RAG, Finetuning, Prompt-engineering  
deplearning.ai

2017-2020 ● **Deep learning**  
Advanced training & hands-on projects  
fast.ai, datascientest, deplearning.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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