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 l-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 assessement based on GPS **Telematics** data.

2014

Actuarial Thesis

AXA Belgium

📍 Remote

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

CONTACT

- ✉ phileas.condemine
- github.com
- gitlab.com
- ≥ hackerrank.com
- twitter.com
- in linkedin.com
- 📞 +33 643 549 576

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 📍 Paris, France

Pricing CAT-Bonds using Monte-Carlo Markov Chains MCMC

🎓 TRAINING

Generative AI
RAG, Finetuning, Prompt-engineering deeplearning.ai 📍 2023-2024

2017-2020

Deep learning
Advanced training & hands-on projects 📍 fast.ai, datascientest, 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 Bulloterie.