

Omar Benfeddoul

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Experience

- Sept 2024 - **Financial science & modeling consultant**, *Paris, France*, Freelance
Present
 - Model migration from PROPHET to Python
 - Implementation of ALM model changes (PROPHET, Python)
 - Automation of actuarial tools (production, reporting, ...)
- Sept 2022 - **Actuarial Manager at Ernst & Young**, *Paris, France*, Advisor: Vincent Dupriez
Sept 2024 Actuarial services:
 - Development of a reporting tool for an insurance company (VBA/Python)
 - Valuation of an insurance company portfolio for an acquisition (vendor due diligence)
 - Implementation of governance framework for AI tools following the EU AI Act requirements
 - Own Risk and Solvency Assessment annual work
 - Strategic plan to improve the performance of the internal commissioning network
- Sept 2020 - **Actuarial consultant at Milliman**, *Paris, France*, Advisor: Jerome Nebout
Sept 2022 Actuarial services:
 - Independant validation of model changes for an insurer
 - Implementation of several improvements and changes in the actuarial model of a life insurer
 - Valuation of an insurance company portfolio for an acquisition (due diligence)
 - Design of a mirror model for the implementation of credit risk
 - Independent valuation of a portfolio for regulatory approval
- April 2018 - **Senior Actuarial consultant at Ernst & Young Advisory**, *Paris, France*, Advisor: Nicolas Gemin
Sept 2020 Actuarial services:
 - Review and implementation of validation tests of an insurer's internal model on R
 - Design of a liability projection model
 - Design of a financial model for managing an assets portfolio (aging, valuation, reinvestment)
 - Strategic asset allocation analysis work (projection, convergence algorithm towards target allocation)
 - Valuation of an insurance company for an acquisition (due diligence)
 - Implementation of an insurance data visualization model under R Shiny
- Feb. 2017 - **Intern at Ernst & Young Advisory**, *Paris, France*
Aug. 2017 Financial modeling and analytics:
 - Data processing and design of data visualization mock-ups on Tableau and R
 - Implementation of a webscrapping and geocoding algorithm
 - Design of a Monte Carlo valuation model
- Summer 2016 **Intern at Choose**, *Paris, France*, Advisor: Thibaut Gensollen
Web and App developer using Ionic, Firebase and NodeJS.

Education

- 2023 **Certified training**, *Ecole Polytechnique, France*
Data science program
- 2016-2018 **Master of Science degree in engineering**, *CentraleSupélec, France*
Computer Science, Data Science and machine learning
- 2017-2018 **Master of insurance and risk management**, *Dauphine, France*
Insurance, Actuarial science, Solvency, Banking and industrial risks
- 2014-2015 **Bachelor of Science degree**, *CentraleSupélec, France*
Energy, Computer Science and Systems

Sept. 2012 - **Intensive 2-year preparation for selective Engineering school entrance examinations**, Lycee
June. 2014 Gustave Eiffel de Bordeaux, France
Competitive exam

Project

2023 **Climate transition incidence on the sovereign risk**, *Ecole Polytechnique*
Design of ML/DL models to predict the projection of the sovereign spread of countries depending on different climate transition scenarios

Apr. 2019 - **Predict the severity of an automobile accident**, *Datacamp*
Oct 2019 Design of an ML algorithm to predict the severity of a car accident using historical information. DB treatment and cleaning.

Sept. 2015 - **Connected Kitchen Garden**, *CentraleSupélec*, Prof. Pascal Cotret
July 2016 Design and creation of a compact garden which can be installed in any household. Responsible of the web application.

Technical skills

Software **Prophet, AlteryX, Tableau, Matlab, RAFM**
Web P. **NextJS, ReactJS**
Programming **Python, R, VBA, C++, Java**
Data Base **MySQL, Postgres, NoSQL**

Languages

Arabic Native speaker
French Second mother tongue
English Fluent
Spanish Academic level