

ELOUAN PULVÉRIC

Data Science & AI Engineer

Available immediately

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EXPERIENCE

AI Engineer Intern

May 2023 – Sep 2023

French Ministry of Interior – [DGGN](#)

Issy-les-Moulineaux, France

- Developed a sketch-to-photo generative AI system by iterating (autoencoder, U-Net, Pix2Pix cGAN) [link](#)
- Built a custom dataset (data collection, processing & augmentation)
- Explored a text-to-face pipeline (text encoder + StableDiffusion API)
- Collaborated with forensic sketch artists to align AI with investigative workflows
- Presentations and results validated as operationally promising by Gendarmerie General

Graduate Student Researcher

Aug 2022 – May 2023

[HumNet Lab](#) | [California Air Resources Board](#)

Berkeley, CA

- Processed Location Based Service data from 2.4M+ users to measure COVID-19 impact on statewide mobility patterns, informed California's 2030 GHG reduction policy
- Developed unsupervised GMM mode detection and semi-supervised KMeans-SVM home-change detection, applied Louvain network analysis to 8,000+ census tract commute graphs
- Published: A Data Science Framework to Measure VMT by Mode and Purpose [link](#)

ADDITIONAL EXPERIENCE

Paratrooper

Jan 2024 – Oct 2025

1st RPIMa – French Army Special Forces selection and training

Bayonne, France

EDUCATION

University of California, Berkeley

2023

Master of Science in Systems Engineering – Courses: Data Science, Machine Learning and Control, *Berkeley, CA*
Advanced Probability and Statistics, Spatial Analytics, Climate Modeling, Electric Power Systems

Arts et Métiers ParisTech (ENSAM)

2023

Master of Science in Mechanical & Industrial Engineering + Maths & Physics preparatory class *Paris, France*

SELECTED PROJECTS

- **Aircraft Turbofan Engine RUL Prediction** [link](#) 2026
End-to-end predictive maintenance system for aircraft turbofan engines. RUL prediction on NASA CMAPSS dataset using Random Forest, XGBoost, sklearn Pipelines & MLflow
- **Electric Vehicles Smart Charge Scheduling** [link](#) 2023
UC Berkeley Master's Capstone Project: Intelligent electric vehicle charging optimization using LSTM models and convex optimization

PERSONAL

Technical Skills Python (Tensorflow, MLFlow, Pandas/Geopandas, Keras, PyTorch, Sklearn), Git/GitHub, VSCode, SQL, Matlab, CATIA.

Area of expertise Data Science, Data Analysis, Machine Learning, Deep Learning.

Languages French (native), English (fluent, C1), German (B2)

Extracurriculars Track athlete (sprint, regional level), chess player