PASCAL GHANAME

Data Scientist

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📍 Paris, France   ☆ 33 ans

SUMMARY

Junior data scientist transitioning from aerospace engineering, with six years experience in aircraft maintenance. I am eager to leverage my diverse background to contribute meaningfully to data-driven projects and keep on honing my skills.

TECHNICAL SKILLS

💬 **Programming**: Python · SQL · Matlab

🤖 **Machine Learning**: Scikit-Learn · TensorFlow

⚙️ **Engineering**: Docker · FastAPI · Prefect · MLFlow

☁️ **Cloud**: Google Cloud Platform (GCP)

⚗️ **Toolkit**: pytest, poetry

CERTIFICATIONS

AI Developer
Le Wagon, certified by the French state (RNCP), 2024

Machine Learning
INRIA mooc, France Université Numérique, 2024

Deep Learning
Coursera mooc with Andrew Ng, 2024

LANGUAGES

French - English - Lebanese

PERSONAL ACHIEVEMENTS

Author of "Contre le pire"
• A dark and absurd play published by "Les editions Baudelaire":
Fnac website

Theater director and producer
• Cast and directed four comedians, managed the technical aspect (sound and lighting), logistics (venue hire and stage set) and handled the marketing strategy.
• In six shows, we brought in 300 spectators and got great feedback:
BilletReduc website

EDUCATION

Data Science	09/2023 - 03/2024
Le Wagon	Paris, France

- Intensive 6-month onsite bootcamp focusing on data sourcing, feature engineering, and predictive modeling
- Gained proficiency in SQL, Scikit-learn, TensorFlow, FastAPI, Docker and GCP
- *Final project*: Designed and deployed a CNN for classifying paintings among eight distinct movements

M.Sc. Aerospace Engineering	09/2015 - 11/2016
Kingston University	London, England

- Specialized in computational fluid dynamics and stress analysis
- *Thesis*: Designed a blended wing body commercial aircraft in a team of five

B.E. Mechanical Engineering	09/2010 - 06/2015
Notre Dame University	Louaize, Lebanon

- Probability and statistics for mechanical design, introduction to computer science and C++
- *Thesis*: Redesigned "Le Mall" into a LEED-certified green building in a team of three

DATA PROJECTS

Large Language Model (LLM): Custom AI Chatbot   07/2024 - 07/2024

- Engineered a Retrieval-Augmented Generation (RAG) application for precise document-based responses using the LangChain library
- Leveraged AWS Bedrock for embedding and chat model integration
- Implemented API endpoints with FastAPI and containerized the application using Docker
- Deployed on AWS Cloud using Lambda and CDK
- 🔗 Demo using my resume as sample data: pascal-application.streamlit.app

Data engineering: Async crawler   04/2024 - 05/2024

- Query data from an API with a httpx async client
- Clean and store the data in a self hosted datalake
- Implemented custom callback mechanism to manage request quota, handle consecutive failures, and filter by publication time range
- Introduced unit testing with Mock and fixtures
- 🔗 https://github.com/Papace78/async-crawler

Convolutional Neural Network: Painting classification among eight distinct movements   03/2024 - 03/2024

- Trained on 45k labeled paintings with data augmentation
- Utilized transfer learning by fine-tuning a TensorFlow VGG16 model
- Developed an API with FastAPI and a command-line interface with Typer
- Dockerized and deployed the API on GCP Artifact Registry
- Created a user-friendly Streamlit app for easy interaction
- 🔗 https://github.com/Papace78/smn

Neural Network Fundamentals: Handcrafted perceptron   10/2023 - 10/2023

- Deepened my understanding of the mathematical principles underlying deep learning
- Implemented using only NumPy
- 🔗 https://github.com/Papace78/handmade-perceptron

EXPERIENCE

Aircraft maintenance engineer	04/2017 - 09/2023
CAMP Systems International	Paris, France

CAMP offers a maintenance management tool for over 20,000 business aircraft
- Designed and updated templates for aircraft maintenance program
- Analyzed technical documentation revisions and new airworthiness directives
- Audited aircraft statuses to ensure regulatory compliance