

Axel Mendoza | Senior ML Engineer

Paris – 75003 – France



linkedin



blog



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website



github

Advancing the frontier of AI through innovative Machine Learning solutions and efficient MLOps practices

Technical Skills

Programming Languages:

Python

SQL

C++

Tools:

Terraform, Terragrunt, Dagster, Airflow, Docker, CI/CD, ZenML, MLflow, Airbyte, DBT, Git, Unix

Python Frameworks:

PyTorch, TensorFlow, Keras, OpenCV, Scikit-learn, Numpy, Pandas, Matplotlib, Seaborn

Google Cloud Plaform (GCP):

- Vertex AI
- Pub/Sub
- Feature Store
- Compute Engine
- Cloud Run
- BigQuery
- Cloud Storage
- Virtual Private Network

Domain of Expertise:

- Deep Learning
- Multi Object Tracking
- Medical Imaging
- Object Re-Identification
- Object detection
- Recommender System

Papers

Deep Learning for Vessel-specific Coronary Artery *European Heart Journal, 2021*

- Co-author for Oxford University world famous journal at Siemens.

Projects

ConsciousML Blog 2020 *Technical Writing* Current

- Writing articles about Data Science, Data Engineering and MLOps

Autonomous RC Car 2017 *Python, Keras, OpenCV* 12 months

- Remote-controlled car that predicts speed and steering angle in real-time.
- 3rd at **IronCar** Summer 2018 and 1st at **RobotCars** Winter 2018 tournaments.

Experience

TRINOV

Avr 2023 - Jan 2025

Senior ML Engineer, Paris

22 months

- **Leading a team** of 5 data scientists
- Created an **AI infrastructure** with Terraform, Vertex AI and ZenML
- Built an **ETL pipeline** with Airbyte, DBT, BigQuery and Dagster
- Designed a **real-time recommendation system** using Vertex AI Feature Store

BOXY

Dec 2020 - Avr 2023

Computer Vision Engineer, Paris

27 months

- Designed person tracking and re-identification systems for an **autonomous grocery store**.
- Created a semi-automatic **annotation pipeline** to generate data for Deep Learning using Airflow and GCP.
- Managed and trained a team of 4 annotators on bounding box and pose video annotation.

SIEMENS

Apr 2019 - Jun 2020

Computer Vision Engineer, US

14 months

- Improved physician diagnosis of **heart disease** with the Unet architecture and Pytorch.
- Improved heart disease diagnosis by **classifying calcium** in high and low risk arteries.
- Enhanced detection of **mitral valve regurgitation** by creating a blood flow dealiasing model using Unet trained on 3D color doppler data using Pytorch and C++.
- Automated the training of these algorithms using AirFlow.

ENGIE

May - Nov 2018

Computer Vision Intern, Paris

7 months

- Improved security of power-plants by designing a **multi-camera vehicle re-identification and tracking** system using Keras and TensorFlow.

SAP

Feb - Jul 2016

Software Engineering Intern, Paris

5 months

- Improved the quality of an excel pluggin by designing an **automatic testing platform** using SQL and Python.

Education

EPITA

2013 - 2018

Computer Science, Data Science Major

5 years

- **Top 10** computer engineering master degree and machine learning program in Paris.