Axel Mendoza | Senior MLOps Engineer

Paris – 75003 – France
linkedin blog axelmendoza@hotmail.fr 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, MLflow, Airbyte, DBT, Git, Unix

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

Google Cloud Plaform (GCP):

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

Domain of Expertise:

- Deep Learning
- Medical Imaging
- Object detection
- Multi Object Tracking
- Object Re-Identification
- 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 MLOps Engineer, Paris *22 months*

- **Leading a team** of 5 data scientists
- Created an **AI infrastructure** with Terraform and Vertex AI
- 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.