Axel Mendoza — Senior ML Engineer

Paris - 75003 - France

in linkedin blog @ axelmendoza@hotmail.fr 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
- Cloud Run
- Cloud Function
- Cloud Storage

- Medical Imaging
- Object detection

- O Pub/Sub
- Compute Engine
- BigQuery
- Virtual Private Network

Domain of Expertise:

- Multi Object Tracking Deep Learning
 - Object Re-Identification
 - Autonomous Driving

Papers

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

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

Projects

Machine Learning Blog 6

PyTorch, Terraform, CI/CD, Numpy, Pandas, SeabornCurrent

 Writing articles about Data Science, Data Engineering and MLOps

Autonomous RC Car 🗘 🧿

2017

202

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 6

Avr 2023 Current

Senior ML Engineer, Paris

O Leading a team of 5 data scientists

- O Automating ML workflows with MLOps
- O Building an **AI infrastructure** with Terraform, Vertex AI and ZenML
- O Building an **Data pipeline** with Airbyte, DBT, BigQuery and Dagster

BOXY 🔗

Dec 2020 - Avr 2023

Computer Vision Engineer, Paris

27 months

- O Designed person tracking and re-identification systems for an autonomous grocery store.
- O 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.

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Apr 2019 - Jun 2020

Computer Vision Engineer, US

14 months

- O Improved physician diagnosis of heart disease with the Unet architecture and Pytorch.
- O Improved heart disease diagnosis by classifying calcium in high and low risk arteries.
- O 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

O Improved security of power-plants by designing a multicamera 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

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