

Axel Mendoza | Data Scientist

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 website  github  blog  linkedin  mail

Data Scientist, with two years experience in computer vision research laboratories seeking a full time opportunity in Paris

Skills









Programming Languages:

Python C C++ SQL

Frameworks: PyTorch TensorFlow Keras OpenCV Sklearn Numpy Pandas Seaborn Matplotlib Hyperopt

Deep Learning: Medical Imaging, Object Re-Identification and Tracking, Autonomous Driving, Reinforcement Learning, Auto-Encoders.

Machine Learning:

- Support Vector Machines 
- Decision Trees, Random Forests, AdaBoost 
- K-means, Guassian Mixture Models 
- Naive Bayes 
- K-Nearest Neighbors 
- Polynomial Regression 
- Logistic Regression 
- Linear Regression 

Education

EPITA **2018**
Computer Science, Data Science Major 5 years
Top 1 computer engineering school in France.

Sejong University - South Korea **2015**
Computer Science, Seoul 6 months
Exchange student program at Sejong University.

Languages

English: Fluent *lived in the US*
Spanish: Bilingual *hispanic origins*
French: Native *mother tongue*

Experience

SIEMENS  **2019**
Machine Learning Intern, Princeton 14 months

- Improved physician diagnosis of heart disease by creating a coronary calcium detector trained on CT scans using Unet with Pytorch.
- Improved patient's disease evaluation even further by classifying calcium in high and low risk arteries.
- Optimized model complexity to fit hospital needs by designing a faster approach using ResNet3D.
- Enhanced detection of mitral valve regurgitation by creating a blood flow dealiasing model using Unet trained on 3D color doppler data.

ENGIE  **2018**
Machine Learning Intern, Paris 7 months

- Improved security of power-plants by designing a multi-camera vehicle re-identification and tracking system using Keras and TensorFlow.
- Implemented 2018 **state-of-the-art** solution and improved mean average precision by **6%** by adapting a pedestrian re-id **paper** to vehicle tracking.
- Collaborated with the best researchers in the field after being invited to **ECCV 2018**.

SAP SE  **2016**
Software Engineering Intern, Paris 5 months

- Improved the quality of an excel pluggin by designing an automatic testing platform.

Projects

Autonomous RC Car  **2017**
Keras 12 months

- Built a remote-controlled car able to drive without assistance.
- Predict speed and steering angle in real-time from an embedded camera using CNN.

Machine Learning Blog  **2020**
PyTorch 3 months

- From scratch implementation of the most used algorithms in machine learning.