

# Axel Mendoza | Data Scientist

3 Rue Morand – 75011 – Paris

[🌐 website](#) [🐙 github](#) [📡 blog](#) [in linkedin](#) [✉ mail](#)

*Data Scientist with two years experience in computer vision seeks 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, 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 predict speed and steering angle in real-time from an embedded camera.
- Participated in tournaments and got 3rd at **IronCar** Summer 2018 and 1st at **RobotCars** Winter 2018.

**Machine Learning Blog** 📶 **2020**  
PyTorch 3 months

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