

# 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, Gaussian 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.