Axel Mendoza | Data Scientist

3 Rue Morand - 75011 - Paris

Data Scientist with two years experience in Al research seeks a full time opportunity in Paris

Skills

Programming Skills:

Python

 C

C++

SQL

Frameworks and Tools: PyTorch TensorFlow Keras OpenCV Sklearn Numpy Pandas Seaborn Matplotlib Hyperopt Docker AirFlow Celery Git Jenkins

Deep Learning: Medical Imaging, Object Reldentification and Tracking, Autonomous Driving, Auto-Encoders.

Machine Learning:

- Support Vector Machines
- o Decision Trees, Random Forests, AdaBoost
- K-means. Guassian Mixture Models
- Naive Bayes
- K-Nearest Neighbors
- o Polynomial Regression 3
- Logistic Regression \$\infty\$
- Linear Regression

Education

EPITA 2018

Computer Science, Data Science Major 5 years

Top 1 computer engineering master degree and most prized machine learning program in France.

Sejong University - South Korea

2015

Computer Science, Seoul 6 months Exchange student program at Sejong University.

Languages

English: Fluentlived in the USSpanish: Bilingualhispanic originsFrench: Nativemother tongue

Experience

SIEMENS **4**

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.
- Automated the training of these algorithms using AirFlow workflows and Celery.

ENGIE ✓ 2018

Machine Learning Intern, Paris 7 months

- Improved security of power-plants by designing a multicamera vehicle re-identification and tracking system using Keras and TensorFlow.
- o Implemented 2018 state-of-the-art solution and improved mean average precision by 6% by adapting a pedestrian re-id paper to vehicle tracking.
- Designed a framework to automatically re-train on different objects like pedestrian, faces, ect...
- 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 using Python, SQL and Jenkins.

Projects

Autonomous RC Car 🗘 💌

2017

Keras, OpenCV

12 months

- o 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, Numpy, Pandas, Seaborn

 $3\ months$

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