Axel Mendoza | Data Scientist

3 Rue Morand – 75011 – Paris

website github blog linkedin mail

Data Scientist with two years experience in AI 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 Jupyter

Deep Learning: Computer Vision for Medical Imaging, Object Re-Identification and Tracking, Autonomous Driving and 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 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: Fluent *lived in the US*
Spanish: Bilingual *hispanic origins*
French: Native *mother tongue*

Experience

SIEMENS US **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 using Pytorch and C++.
- 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 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.
- 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 **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**
Python, Keras, OpenCV *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, Numpy, Pandas, Seaborn *3 months*

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