Antonin **Duval**

ENGINEER IN ARTIFICIAL INTELLIGENCE
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Looking for a position as Research Engineer/Data Scientist starting in February 2021

Education

CentraleSupelec — *Paris, France*
MASTER OF SCIENCE IN ARTIFICIAL INTELLIGENCE — *September 2019 - Today*
Theoretical Courses: Advanced Deep Learning, Machine Learning, Reinforcement Learning, Foundation of AI
Applied Courses: DL for Medical Imaging, Ensemble Learning, Information Retrieval, Multi-Agent

ISEP (Institut Supérieur d'Electronique de Paris) — *Paris, France*
MASTER 2 BUSINESS INTELLIGENCE – ENGINEER — *September 2013 - June 2018*
Big Data, data analysis, programming.

Lycée Fénelon Sainte Marie — *Paris, France*
BACCALAURÉAT S, MATHEMATICS AND PHYSICS — *September 2006 - June 2013*
Mathematics Specialty.

Experience

Thales Research and Technology — *Palaiseau, France*
RESEARCH INTERNSHIP — *July 2020 – Today*
- Implementation of state-of-the-art algorithms in reinforcement learning from papers using PyTorch
- Research on how to improve Multi Agent Reinforcement Learning methods by using communication with attention networks.
- Development of a multi-agent environment for drone control.

Ysance — *Paris, France*
DATA SCIENTIST – CDI — *January 2018 – July 2019*
- Mission at Allianz France to develop NLP models in Python for real-time classification of emails (AskMail).
- Creation of pipelines with PySpark for the detection of opportunity (AskSales).
- Development of a process for online ML to automatically retrain our NLP models in production.
- Six months mission at Etam group for predictive marketing. Creation of a model in Python that scores how likely is a client to buy a product after receiving a promotion.

Wabel — *Paris, France*
DATA SCIENTIST – STAGE — *January 2017 – August 2018*
- Data Management, integration of data.

Projects and Certifications

- **Creation of ML model to predict french's 2016 election based on INSEE database.**
  MACHINE LEARNING, PYTORCH, TENSORFLOW, SKLEARN – DECEMBER 2019
  Development of a ML algorithm to predict the winner in both first and second round of the 2016's election, using socio-economic variables from French cities.
- **Multi Agent Reinforcement Learning on Ants.**
  REINFORCEMENT LEARNING, PYTORCH – APRIL 2020
  Creation of an environment with PyGame to model ants that needs to cooperate to bring back food to the anthill. Training of a deep RL algorithm. More information in our article published in Toward Data Science : How we trained ants using reinforcement learning
- **Training of a CycleGAN for IRM and CT Scan.**
  COMPUTER VISON, PYTORCH – FEBRUARY 2020
  Training of CycleGAN for the final project of our class of Deep Learning for Medical Imaging. Using open-source data of CT scans and IRM, we were able to translate images from one domain to the other while maintaining coherence.
- **Certification Amazon Web Services Technical Professional (Digital)**
- **Dataiku DSS Certification**

Languages

French

Anglais TOEIC : 955 / 990 TOEFL : 105/120

Spanish B2 - Semester in Argentina

Skills

Programmation Python, Java, R
Deep Learning / Machine Learning PyTorch, TensorFlow, Scikit
Big Data PySpark, GCP, AWS
Integration Docker, Luigi

Hobbies

Sports Climbing (bouldering), Ski, Surf
Personnel Movies, Bass, Chess

Associative Experience

President – Student's Office *(2016-2017)*
Student Relationship Manager - IsepAlumni *(2019 – Today)*