

Baptiste Moreau-Pernet

Data Scientist ▪ Learning Engineer

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ACADEMIC EXPERIENCE

Carnegie Mellon University

Fall 2020

- Designed and implemented digital online cognitive tutors to build adaptive educational courses in Geography & Math. *JavaScript, nools*
- Extracted valuable insights from a SQL database storing chatbot conversational metadata to refine interaction design, in a research project to train low-resourced Ivoirian teachers. *Python, numpy, seaborn, sqlite*

Université Paris-Saclay, CentraleSupélec Engineering School, Paris

2017 – 2020

- GPA: 3.73; *Math & Physics, ML, Software, Economics, Team building.*
- Co-designed a skill-based job description ontology to match job descriptions to job seekers' de-identified resumes with matching models in a 2-year four-person project.
- Predicted job turnover with ML classification models (0.98 accuracy) for the same project. *Python, sklearn, seaborn, pandas*
- Co-designed a neural network-driven Arduino autonomous car in a two-person semester project. *Raspberry Pi 3, Arduino*
- Developed and fine-tuned Convolutional NN to drive the car along a line using floor pictures for in-time direction prediction. *Python (Keras)*

PROFESSIONAL EXPERIENCE

Data Analyst Engineer Intern 03/2020 – 07/2020

Calyps S.A, Sion, Switzerland

- Designed and implemented a patients' hospital stays automatized codification SaaS to improve operational costs, codification efficiency and reliability.
- Developed and fine-tuned a patients' hospital stays classification model trained on 30K+ natural language medical notes with 400+ target classes using state-of-the-art NLP and achieving a 60% accuracy. *Deep Learning, BERT (camembert), Python, PyTorch, MySQL, Team Project*
- Ran the operational implementation of the SaaS for an external client.

Research Intern 09/2019 – 01/2020

Cognitive Sciences & Psycholinguistics Laboratory, ENS ULM, Paris, France

- Ran an observational study on a 30K+ Junior High School student cohort to identify grade repetition's effects on learning. *Statistical Analysis, R*

Internships 08/2016 & 07/2015

Moneythor, Singapore

- Coded a Java app to extract and format PDF banking transactions. *Tabula*
- Coded multiple Javascript APIs for banking advice. *JavaScript, REST API*

SKILLS

Python, JavaScript, SQL, R
Machine Learning, NLP
Pandas, Numpy, seaborn, Keras, PyTorch
Dataiku, Jupyter

EDUCATION

Carnegie Mellon Univ.

Sch. of Computer Science
Master of Educational
Technology & Applied
Learning Science
August 2021

CentraleSupélec, Paris

M.S. Science & Engineering
June 2020

LANGUAGES

French (native)
Spanish (fluent)
English (fluent)

HONORS

Rotary International Global Grant scholarship

Rotary's development axe
of Education
2020/2021

OTHER INTERESTS

Multicultural experiences
Competitive rowing
Black belt in Karate
Ski at a competitive level