

Baptiste Moreau-Pernet

Data Scientist ▪ Learning Engineer

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PROFESSIONAL EXPERIENCE

Sr Data Scientist at CodingDojo, Bellevue, WA

May 2022 to Present

- Improved student retention by 25% by empowering support managers with an at-risk students identification dashboard, using an explainable, statistical model based on core retention and learning metrics.
- Increased our teams' daily efficiency by productionizing models on Google Cloud Platform and delivering real-time student insights.
- Planned Coding Dojo's adaptive learning strategy based on the LMS data.
- Evaluated marketing channels and sales processes by analyzing their impact on student retention and revenue recognition.
- Managed 1 data engineer, conducted regular reviews & defined goals.
- Presented data reports in weekly executive strategic meetings.

Data Scientist at CodingDojo, Bellevue, WA

September 2021 to May 2022

- Defined the company's data science strategy in Learning Analytics.
- Improved student learning experience by conducting customer segmentation using clustering algorithms to identify student behaviors.
- Increased Coding Dojo's Learning Science capabilities by extending our student data collection: student survey iterations, conducting A/B testing.
- Advanced our student habits understanding by applying student learning machine learning models to our LMS data: LSTMs, Random Forests, etc.
- Reported to the Head of Analytics and presented to C-level executives

Data Lead Consultant at Vulpini, Carnegie Mellon University, Pittsburgh, PA

February 2021 to August 2021

- Conducted teacher interviews, analyzed market position, data and value flows to improve client's classroom interface & teacher dashboard.
- Researched & designed data models for student social-emotional support.

Data Scientist Intern at Calyps S.A, Sion, Switzerland

March 2020 to July 2020

- Designed and implemented a patients' hospital stay software to improve codification efficiency and save time for clinical professional coders.
- Trained a Deep Learning classifier on 30K+ natural language medical notes with 400+ target classes using PyTorch and achieved a 60% accuracy.
- Ran the software's operational implementation for a private clinic.

ACADEMIC EXPERIENCE

Introduction to Deep Learning Course

CMU | Spring 2021

- Developed dense, convolutional, recurrent, attention-based neural networks for image recognition and speech-to-text tasks, trained on AWS.
- Researched and implemented Generative Adversarial Networks for Super Resolution task, achieved a 24+ PSNR and 54+ SSIM on DIV2K dataset.

EDUCATION

Carnegie Mellon University School of Computer Science

Master of Educational
Technology & Applied
Learning Science

August 2021

Univ. Paris-Saclay

Master of Science & Engineering
June 2020

Univ. Paris-Saclay

Bachelor of Science &
Engineering
June 2018

SKILLS | Data Science

Languages

Python, JavaScript, SQL, R

Softwares

GCP, Azure, dbt cloud,
Tableau, Looker

Libraries

Pandas, Numpy, seaborn,
Keras, PyTorch, TensorFlow

SKILLS | Learning Engineer

Course design

cognitive task analysis, A/B
testing, backward design

Online learning

Game Design, Tutors

HONORS

Rotary International Global Grant Scholarship

Rotary's Development Axe of
Education

CMU | 2020 to 2021

OTHER INTERESTS

Languages: Fluent in English,
Spanish, French
Black belt in Karate
Ski at a competitive level
Guitar player