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% after empowering support managers with an at-risk students identification dashboard, using a statistical model based on deep-dive retention analysis and advanced learning metrics.
- Increased our teams' daily efficiency by productionizing models on Google Cloud for data-driven & real-time student insights.
- Evaluated marketing channels and sales processes with an impact analysis on student retention and revenue recognition.
- Managed 1 full-time employee with regular goals & performance reviews.
- Presented data reports in weekly C-level executive strategic meetings.
- Planned the product roadmap for student adaptive learning.

Data Scientist at CodingDojo, Bellevue, WA
September 2021 to May 2022
- Defined the company's data science growth strategy in Learning Analytics.
- Adapted user communication using customer segmentation on behavioral data, resulting in a 15% improvement in student support.
- Advised on experimentation strategy & extended data collection: survey design, A/B testing, platform usage data, student profiles.
- Advanced our understanding of student learning habits by applying timeseries analyses to our LMS data: LSTMs, Random Forests, etc.

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, Stitch
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