ANTONIN VIDON

Objective: Application for an internship in Data Science
+1 (646) 276 2091 | antonin.vidon@columbia.edu | https://www.linkedin.com/in/antonin-vidon/

EDUCATION

Columbia University — New York, USA
MS in Data Science — Dec 2022
Relevant coursework includes Neural Networks and Deep Learning, Exploratory Data Analysis and Visualization, Algorithms for Data Science, Computer Systems for Data Science, Advanced Deep Learning, Natural Language Processing

École Polytechnique — Palaiseau, France
MS in Applied Mathematics — Aug 2021
Relevant coursework includes Data Analysis and Unsupervised Learning, Machine and Deep Learning, Statistical Modeling, Statistics
GPA: 3.87/4.0

Lycee Hoche — Versailles, France
Preparatory class for nationwide competitive exam (MPSI/MP*) — Jul 2018
Undergraduate coursework includes includes Mathematics, Physics and Computer Science (Python and SQL)
GPA: 3.98/4.0

WORK EXPERIENCE

Huawei — London, United Kingdom
Reinforcement Learning Research Intern — Mar 2021 - Aug 2021
- Implemented recurrent A2C and DQN models to solve navigation tasks from raw visual information in an interactive environment
- Developed and trained a deep generative model to imitate "expert-like" navigation behavior on different types of surfaces
- Modeled posterior distribution of future trajectories by combining the imitation prior with a flexible task specific goal likelihood

Bain & Company — Paris, France
Associate Consultant Intern — Jun 2020 - Aug 2020
- Conducted market potential analyses based on financial datasets of onshore/offshore wind turbine manufacturers
- Co-designed a transformation program for a large European manufacturer's consisting of a 2B$ SG&A reduction plan over 3 years

Junior Enterprise of École Polytechnique — Palaiseau, France
Treasurer & Project Manager — May 2019 - Dec 2020
- In charge of a 200,000€ budget, accounting, payroll and tax payment
- Drafted proposals for potential clients and supervised diverse data-oriented projects (e.g., web app development, market analysis)
- Awarded "Outstanding Investment" for involvement in École Polytechnique's student community

ACADEMIC & PERSONAL PROJECTS

Department of Applied Mathematics of École Polytechnique — Palaiseau, France
Improving patient care of young women with breast cancer — Sep 2020 - Dec 2020
- Processed results from surveys made at different stages of illness and built life trajectory related scores to analyze clinical pathways
- Performed t-SNE, PCA and clustering for young patients under 45 to demonstrate the need for an age specific treatment

Department of Computer Science of École Polytechnique — Palaiseau, France
COVID19 Retweet Prediction — Sep 2020 - Dec 2020
- Carried out thematic clustering and differential prediction of number of retweets with Gradient Boosting and Quantile regression
- Performed text embedding with Bidirectional Encoder Representations (BERT, Google) for deep prediction with TensorFlow

Department of Physics of École Polytechnique — Palaiseau, France
Integration of physical models into voxel-based video games — Sep 2019 - Jun 2020
- Implemented thermal model of corrosion, diffusion, and passivation of metallic voxel on Unity engine in C#
- Built gameplay to interact with these models in order to enhance pedagogical and recreational features of the game
- Ranked 1st/112 capstone projects and awarded "Excellence prize" during a public prototype exhibition

Classification for Breast Histopathology — Feb 2020 - Feb 2020
- Conducted exploratory data analysis of patches scanned at x40 (e.g., class balance, kernel density of tissue color in HSV space)
- Oversampled cancerous patches and selected XGBoost as best state-of-the-art classifier based on cross-validation (82% accuracy)
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SKILLS & INTERESTS

- IT: Python (PyTorch and Tensorflow), R, Java, SQL, C++/C#, LaTex
- Languages: French (native), English (fluent), German (intermediate)

- Major interest: Piano (15 years) - Numerous performances & CEM diploma (highest non-professional degree of Music Theory)