Mathias Parisot

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Github: matprst

Education

2020 - PRESENT

M.Sc. in Artificial Intelligence / University of Amsterdam, NETHERLANDS

- 8.5 GPA (not final)
- Courses: ML1, CV1, deep learning, NLP 1 and 2, information retrieval 1

2017 - 2020

B.Sc. in Computer Sciences / Vrije Universiteit Amsterdam, NETHERLANDS

- Cum Laude with Honors ; 9.2 GPA
- Courses: computational intelligence, advanced programming, data structures & algorithms, information retrieval, data wrangling, statistical methods
- Received Holland Society Young Talent Incentive Award by the Royal Holland Society of Sciences and Humanities for best grades achieved in the first year at a Dutch institution in the discipline of informatics and technical informatics
- Thesis: Property Inference Attacks on Convolutional Neural Networks (published at SECRYPT 2021 and received best poster award)

2014 - 2016

B.Sc. in Engineering Sciences / Grenoble INP ENSE3, FRANCE

- Hydraulic, civil and environmental engineering

Experience

JULY 2021 – PRESENT

Software Development Engineer Intern / Amazon Web Services, Berlin, GERMANY

- AWS AI – DevOps Guru team
- Stack: Python, Javascript, AWS Lambda, AWS DynamoDB

JUNE 2020 – SEP 2020

Research and Development Intern / SURFSara, Amsterdam, NETHERLANDS

- Developed a Deep Neural Network profiling workflow using containers (github link)
- Profiled distributed training of Resnet50 on two HPC systems: Cartesius, and LISA
- Stack: Python, Pytorch, linux, SLURM

JUN 2019 – AUG 2020

Assistant researcher / Atlarge research group, Amsterdam, NETHERLANDS

- Goal: Profiling Machine learning and Deep learning workload at scale. In collaboration with Xilinx Inc., and SURFsara.
- Run machine learning experiment on Dutch National supercomputer Cartesius
- Data wrangling, analysis, and visualization of the results using Python

JUN 2019 – SEP 2019

Software Engineer Intern / Optiver, Amsterdam, NETHERLANDS

- Developed and deployed a web-application allowing users to edit a dataset of trading instruments. All actions were tracked and users could generate and distribute an XML file to all the collocations.
- Stack: Python, flask, postgresql, linux

JUN 2018 – AUG 2020

Teacher Assistant / Vrije Universiteit Amsterdam, , NETHERLANDS

- Programming course: guided CS and AI students and graded their C++ and Python assignments

Publications

Parisot, M., Pejo, B. and Spagnuelo, D., 2021. Property Inference Attacks on Convolutional Neural Networks: Influence and Implications of Target Model's Complexity. arXiv preprint arXiv:2104.13061. SECRYPT 2021 (**best poster award**)

Harrison, A., Habacker, R., Snijders, A. and Parisot, M., 2021, January. Learning to Deceive With Attention-Based Explanations. In ML Reproducibility Challenge 2020.

Skills

Programming

- **Python:** Pytorch, NumPy, Pandas, Matplotlib
- **C, C++, Java** (Basic knowledge)
- **SQL:** postgresql
- **Git, Linux:** command line, SLURM

Languages

- **French:** Native language
- **English:** TOEFL iBT score 104
- **German**: Basic knowledge

Personal Projects

- **flappy-bird AI:** Implemented an evolutionary algorithm to train a flappy-bird AI (github link)
- **Sudoku game:** Implemented the logic in Python and the GUI using PyGame (github link)