Theophile Gervet

Contact Information

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Research Interests

Solving practical problems with ML — building useful robots in homes, schools, hospitals.

Education

Carnegie Mellon University September 2018 - Present
Machine Learning Ph.D. — GPA: 4.06/4.30, Advisors: Profs. Tom Mitchell and Jeff Schneider
• Reinforcement learning with applications in self-driving cars and personalized K-12 education at scale through adaptive sequencing of instructional activities in intelligent tutoring systems.

McGill University September 2014 - December 2017
Computer Science & Mathematics B.Sc. Honours — GPA: 3.95/4.00
• Hierarchical reinforcement learning with Prof. Doina Precup

Work Experience

Research Intern, Facebook AI Research May 2022 - August 2022
• Real-world semantic (object goal) navigation with Devendra Chaplot and Profs. Dhruv Batra and Jitendra Malik.

Machine Learning Lead, Relyance AI May 2020 - April 2022
• Relyance AI monitors and manages data privacy programs continuously with machine learning.
• Joined as the first engineer, hired and led a team of 8 machine learning engineers through high growth (from scratch to $4M of recurring revenue with big brand customers like Zoom, Robinhood, and Patreon, $30M in funding, and 70 employees).
• Built Relyance's core end-to-end ML/NLP systems processing legal documents, source code, and runtime monitoring data to map user data flows, and the infrastructure for model training, deployment, and monitoring.

Research Intern, Facebook AI Research March 2018 - June 2018
• Multi-agent reinforcement learning with Prof. Joelle Pineau.

Publications

PASS: Performance Adaptive Sampling Strategy Towards Fast and Accurate Graph Neural Networks
Minji Yoon, **Theophile Gervet**, Baoxu Shi, Sufeng Niu, Qi He, Jaewon Yang (KDD 2021)

When is Deep Learning the Best Approach to Knowledge Tracing?
Theophile Gervet, Ken Koedinger, Jeff Schneider, Tom Mitchell (JEDM 2020)

Autonomous Graph Mining Algorithm Search with Best Speed/Accuracy Trade-off
Minji Yoon, **Theophile Gervet**, Christos Faloutsos (ICDM 2020)

TarMAC: Targeted Multi-Agent Communication
Abhishek Das, **Theophile Gervet**, Michael Rabbat, Joelle Pineau (ICML 2019)