Tamim El Ahmad
PhD Student · Machine Learning
tamim-el.github.io

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Créteil, France   github.com/tamim-el

Education

TÉLÉCOM PARIS
PhD in Machine Learning (Sup. F. d'Alché-Buc, P. Laforgue)
Jan. 2021 – Present
Paris, France
- TITLE: Learning Deep Kernel Networks: Application to Efficient and Robust Structured Prediction
- RESEARCH TOPICS: Kernel Methods, Random Projections, Structured Prediction, Neural Networks

ÉCOLE NORMALE SUPÉRIEURE PARIS-SACLAY
Master's degree MVA - Machine Learning and Computer Vision
Sep. 2019 – Sep. 2020
Paris, France

ÉCOLE DES MINES DE SAINT-ÉTIENNE
Engineering Degree - Computer and Data Science
Sep. 2016 – Sep. 2020
Saint-Étienne, France

UNIVERSITÉ PARIS-DIDEROT
Academic gap year in Master 1 - Applied Mathematics
Sep. 2018 – Sep. 2019
Paris, France

UNIVERSIDAD DE BUENOS AIRES
Exchange Program - Computer and Data Science
Aug. 2017 – Dec. 2017
Buenos Aires, Argentina

UNIVERSITÉ JEAN MONNET
Bachelor's degree - Mathematics
Sep. 2016 – Sep. 2017
Saint-Étienne, France

Experience

TÉLÉCOM PARIS
Research Engineer in a joint project with Valéo
Oct. 2020 – Jan. 2020
Paris, France
- Research and development for unsupervised anomaly detection (One-Class SVM, Isolation Forest, Data Depth)
- Development of an unsupervised anomaly detection library (Python)

TÉLÉCOM PARIS
Research Intern
May 2020 – Sep. 2020
Paris, France
- Research and development for structured prediction: hybrid architecture based on kernel methods and neural networks (PyTorch)

MÉDICIS
Computer Science Intern
Jun. 2019 – Aug. 2019
Paris, France
- Development of a NoSQL data entry server (MongoDB)

SANOFI
Computer Science Intern
Jun. 2018 – Aug. 2018
Paris, France
- Research and development of a deep learning model for automatic recognition of IC-50 curves (Keras, Knime)

Academic Duties

Teaching Assistant   Jan. 2021 – Present
Télécom Paris   *Paris, France*
- Tutorials: Statistics, Convex Optimisation
- Practical Sessions: Statistics, Convex Optimisation, Kernel Methods, Introduction to Machine Learning, Structured Prediction

Reviewer   Jun. 2022 – Present
AISTATS, JMLR, TPAMI

Talks   Sep. 2022 – Present
Alan Turing Institute, DataSig team (Online, May 23), CAp (Strasbourg, Jul. 23), JdS (Bordeaux, May 24)

Publications

Deep Sketched Output Kernel Regression for Structured Prediction (Preprint).
T. El Ahmad*, J. Yang*, P. Laforgue, F. d'Alché-Buc.

Sketch In, Sketch Out: Accelerating both Learning and Inference for Structured Prediction with Kernels (AISTATS 2024).
T. El Ahmad, L. Brogat-Motte, P. Laforgue, F. d'Alché-Buc.

Fast Kernel Methods for Generic Lipschitz Losses via p-Sparsified Sketches (TMLR 2023).
T. El Ahmad, P. Laforgue, F. d'Alché-Buc.

Other Interests

Musical education and Guitar: 10 years, National school of music Marcel Dadi in Créteil
Sport: Fencing (8 years of practice), Football, Swimming