Tamim El Ahmad
PhD Student · Machine Learning

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Créteil, France   github.com/tamim-el

Education

TÉLÉCOM PARIS
Jan. 2021 – Present

PhD in Machine Learning (Sup. F. d'Alché-Buc, P. Laforgue)   *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
Sep. 2019 – Sep. 2020

Master's degree MVA - Machine Learning and Computer Vision   *Paris, France*

ÉCOLE DES MINES DE SAINT-ÉTIENNE
Sep. 2016 – Sep. 2020

Engineering Degree - Computer and Data Science   *Saint-Étienne, France*

UNIVERSITÉ PARIS-DIDEROT
Sep. 2018 – Sep. 2019

Academic gap year in Master 1 - Applied Mathematics   *Paris, France*

UNIVERSIDAD DE BUENOS AIRES
Aug. 2017 – Dec. 2017

Exchange Program - Computer and Data Science   *Buenos Aires, Argentina*

UNIVERSITÉ JEAN MONNET
Sep. 2016 – Sep. 2017

Bachelor's degree - Mathematics   *Saint-Étienne, France*

Experience

TÉLÉCOM PARIS
Oct. 2020 – Jan. 2020

Research Engineer in a joint project with Valéo   *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
May 2020 – Sep. 2020

Research Intern   *Paris, France*
- Research and development for structured prediction: hybrid architecture based on kernel methods and neural networks (PyTorch)

MÉDICIS
Jun. 2019 – Aug. 2019

Computer Science Intern   *Paris, France*
- Development of a NoSQL data entry server (MongoDB)

SANOFI
Jun. 2018 – Aug. 2018

Computer Science Intern   *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

ELISE Theory Workshop (Sophia Antipolis 2022), CAp (Strasbourg 2023)

Publications

Conference

Sketch In, Sketch Out: Accelerating both Learning and Inference for Structured Prediction with Kernels (Preprint 2023).
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