

HASSAN ISMAIL FAWAZ

Machine Learning Researcher | PhD in Computer Science

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hfawaz

hfawaz.github.io

publications

EXPERIENCES

Senior Researcher

Ericsson

May 2022 – Present

Paris, France

Machine Learning for wireless telecommunication.

Machine Learning Researcher

Besedo

Oct 2020 – April 2022

Paris, France

Computer vision & NLP for content moderation.

Visiting Machine Learning Researcher

Monash University

Nov 2019 – Dec 2019

Melbourne, Australia

Classifying satellite image time series.

Deep Learning Lecturer

Université Haute-Alsace

Sep 2018 – 2021

Mulhouse, France

Giving an advanced course on deep neural networks.

Machine Learning & Semantic Web Intern

Orange Labs

Mar 2017 – Sep 2017

Sophia Antipolis, France

Designing a dataset recommendation engine.

Data Privacy & Optimization

Université Antonine

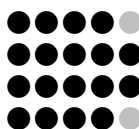
Jun 2016 – Aug 2016

Beirut, Lebanon

Developing data anonymization technique with CPLEX.

SKILLS

Python, Docker, Linux, Kubernetes, PBT
Pytorch, Tensorflow, Keras, Scikit-learn
Machine Learning, Computer Vision, NLP
Writing, presenting, publishing, Latex



EDUCATION

Université Haute-Alsace

PhD in Machine Learning

Sep 2017 – Sep 2020

Mulhouse, France

COLLABORATIONS

- HuggingFace Paris, FR 2021
- Monash University Melbourne, AUS 2020
- Alan Turing Institute London, UK 2020
- University East Anglia Norwich, UK 2020
- University of Glasgow Glasgow, UK 2020
- The Open University Heerlen, NL 2019
- E-JUST University Alexandria, EG 2019

AWARDS

- NVIDIA Academic Hardware Grant Program
- IEEE Big Data Student Travel Award
- Université Antonine Programming Contest

OPEN SOURCE

HuggingFace

- [datasets](#): Adding three different datasets to the [HuggingFace](#) datasets library. More details in these three [merge requests](#).

Keras

- [keras.io](#): Providing the first Keras tutorial on deep learning for time series classification.

InceptionTime

- [InceptionTime](#): Proposing an Inception based network that applies several convolutions with various filters lengths for time series classification. InceptionTime was the first pure deep learning classifier able to reach the state-of-the-art results for time series classification.

Deep learning for time series classification

- [dl-4-tsc](#): Publishing the first large scale deep learning benchmark for time series classification by training 8730 models on 97 datasets. This [publication](#) has been ranked [top 1](#) of all time in [Data Mining and Knowledge Discovery](#).

Interpretable surgical skills evaluation

- [miccai18](#): Designing a Convolutional Neural Network (CNN) to evaluate surgeons' skills by extracting patterns from the surgeons' hand gestures performed during robotic surgery. Following the latter project, we provide an [open source implementation](#) of synchronizing multiple surgical training videos that would allow the surgeon to improve their training.

Transfer learning for time series data

- [bigdata18](#): Performing a large experimental study on how to choose the best source dataset for a given target dataset when doing transfer learning for time series classification.

Deep learning extension for sktime

- [sktime-dl](#): Providing an extension package for deep learning with Keras for sktime, a scikit-learn compatible Python toolbox for learning with time series and panel data.