HASSAN ISMAIL FAWAZ

Data Scientist & Machine Learning Researcher

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EXPERIENCES

Machine Learning Researcher
Besedo

📅 Oct 2021 – Present ⚲ 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
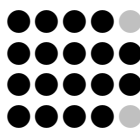**Université Antonine**

📅 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

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EDUCATION

Université Haute-Alsace
PhD in Machine Learning

📅 Sep 2017 – Sep 2020 ⚲ Mulhouse, France

Université de Bourgogne
Masters in Databases & Artificial Intelligence

📅 Sep 2016 – Sep 2017 ⚲ Dijon, France

Université Antonine
Masters in Software Engineering

📅 Sep 2012 – Sep 2017 ⚲ Beirut, Lebanon

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.