HASSAN ISMAIL FAWAZ

Senior Machine Learning Engineer | PhD in Artificial Intelligence

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Paris, France

O hfawaz

% hfawaz.github.io

publications

EXPERIENCES

Senior Machine Learning Engineer **Ericsson**

May 2022 - Present

Paris, France

- **Tech lead** for in-house research project on **transfer learning** for Time Series Classification (TSC)
 - Code review & mentoring of PhD students while setting up best practices for performing ML experiments
 - Implement state of the art deep learning models while scaling up experiments on a Kubernetes cluster
 - Defining research project **roadmap**, team responsibilities & lead a monthly **reading group** on Artificial Intelligence
- Software developer: wrapping an anomaly detection algorithm with a microservice
 - Follow **software engineering** best practices, code review, unit & integration tests, CI/CD
 - Multiprocessing in **Python** for vertical scaling with Kafka based communication

Machine Learning Engineer

Besedo

M Oct 2020 - April 2022

Paris, France

- Content moderation using Machine Learning: Computer Vision and Natural Language Processing (NLP)
 - Create internal benchmarks of latest state-of-the-art (Sota) models using private client data
 - **Guide & mentor** junior data scientists and linguistics (interns as well as fresh graduates)
 - Develop **microservices** for ML inference & **reduce latency** using quantization, pruning, JIT & tensorRT
 - Monitor model performance and decay (concept & data drift, covariate & label shift)
 - **Orchestrate** and automate model training using Airflow (migrating from CronJobs)
 - Contribute to **HuggingFace**'s open source datasets library by adding various NLP datasets (link)
 - Deliver proof-of-concepts for various SOTA models using Streamlit

Software Developer Intern

Orange Labs

March 2017 - September 2017

♀ Nice, France

Java recommendation system based on RDF triplet data

DATA SCIENCE SKILLS

Computer Vision, NLP & Time Series Pytorch, Scikit-learn, Pandas & HuggingFace Hydra, Tensorboard & Data Version Control Linear Algebra, Geometry & Probability Writing, Presenting & Knowledge Sharing



EDUCATION

Université Haute-Alsace PhD in Machine Learning

♥ Mulhouse, France

- Advance the state-of-the-art on Deep Learning for Time Series Classification (TSC) (link)
- Contribute to Keras.io with a tutorial on Convolutional Neural Networks for TSC (link)
- Open sourcing the *dl-4-tsc* project with 1k+ GitHub stars (link)
- Publishing in top conferences and journals while reaching #1 of all time in DMKD (link)
- Student travel award for IEEE Big Data 2018 conference at Seattle (link)
- International collaborations: Monash University (AUS), Alan Turing Institute (UK), The Open University (NL)
- **Deep learning** course for masters students at ENSISA engineering school

Université de Bourgogne

Masters in Databases

m Sep 2016 - Sep 2017

Oijon, France

- SQL, NoSQL, Graph, Constraints Programming
- Data Mining, Machine Learning, Semantic Web

Université Antonine

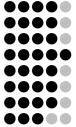
Masters in Software Engineering

Oijon, France

- JAVA, C#, Multi-threading, Web Services
- Networking, CCNA Routers & Switches

DEV SKILLS

Object Oriented Programming Software Design Patterns Algorithms & Data Structures Debugging & Python Profiling Python, SQL, NoSQL Time & Memory Complexity Agile Development MapReduce, Java, C++



OPS SKILLS

Git, Code Review, Unit Tests Docker, Kubernetes GitLab CI/CD Pipeline High Perf. Computing (HPC) Amazon Web Services (AWS) REST, gRPC, Message Brokers

