HASSAN ISMAIL FAWAZ

Senior Machine Learning Engineer | PhD in Artificial Intelligence

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Paris, FR

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publications



EXPERIENCES

Senior Machine Learning Engineer **Ericsson**

May 2022 - Present

Paris, France

- Tech Lead for in-house research project on transfer learning
 - Setup best practices for Deep Learning experimentation
 - Code review & mentoring of PhD students & data scientists
 - Implement state of the art models for domain adaptation
 - Scale up Deep Learning experiments on Kubernetes
 - Define the research project roadmap & team responsibilities
 - Lead a monthly **reading group** on Artificial Intelligence
- Machine Learning Engineer: developing a microservice
 - Follow software engineering best practices
 - Code review, unit & integration tests, CI/CD
 - Dealing with Kafka based communication system
 - Develop ML Ops & model Life Cycle Management (LCM)

 - Implement and investigate various design patterns
- Data Engineer: develop big data processing pipelines
 - Spark for extracting & normalizing parquet data
 - Clustering & Forecasting of time series

Machine Learning Engineer Besedo

M Oct 2020 - April 2022

Paris, France

- Content moderation using Machine Learning
 - Benchmark latest Computer Vision Deep Learning models
 - Guide & mentor junior data scientists and linguistics
 - Evaluate NLP transformer models for text classification
 - Develop microservices for live computer vision inference
 - Reduce latency using quantization, pruning, JIT & tensorRT
 - Monitor model performance and decay (e.g. accuracy)
 - Evaluate concept & data drift, covariate & label shift
 - Orchestrate and automate model training using Airflow
 - Contribute to **HuggingFace**'s open source datasets (link)
 - Deliver proof-of-concepts for ML 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

₩ Sep 2017 - Sep 2020

Mulhouse, France

- Advancing 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 framework 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)
- Teaching a **Deep Learning** course for masters students at ENSISA engineering school

Université de Bourgogne

Masters in Databases

₩ Sep 2016 - Sep 2017

Oijon, France

- SQL, NoSQL, Graph
- Data Mining, Semantic Web
- Linear & Constraints Programming

Université Antonine

Masters in Software Engineering

₩ Sep 2011 - Sep 2016

Oijon, France

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

DEVELOPMENT SKILLS

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



OPERATION SKILLS

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

