Data scientist, Software engineer

Hamid BADRI

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Machine Learning, Data-driven model and AI

Certificate & Education

2018: Doctor (PhD**)**, physics and numerical modeling. University of **Strasbourg**;

2015: Master of Science, Computational engineering. **ICUBE**-UFR Physic & Engineering of **Strasbourg**;

2014: «**Maitrise**»: **Computational engineering**. UFR Physic & Engineering-University of Strasbourg (**France**);

2012: Master of Engineering, Process, Energy and Environment Engineering, ENSA (**Morocco**);

2009: Bachelor of Science and Technology (Math.Inf.Phy)/ENERGY (**FSTS**);

Experience

Since January-2021: Data scientist at Bial-r/**Merck-Group (M-lab**): Artificial Intelligence (AI) models:

- ✓ Multivariate time series forecasting, predictive maintenance, using Deep-Learning and Machine Learning.
- ✓ Test of the models wraped in Rest API and preparation of AWS-Lambda serving the models.
- ✓ Data cleaning, analysis and structuring.

March-2019-August-2020: Data scientist at Stockbooking (**France**): PoCs, AI, Machine learning:

- ✓ Backend development: development of an API serving forecasting and decision making models.
- ✓ Data driven model and algorithm conception: Stock optimisation using Reinforcement Learning (Q-learning); Multivariate time series analysis, demand forecasting (Deep-Learning);
- ✓ Pipeline data development; Data cleaning and augmentation.
- ✓ Model training and Hyperparameter optimisation.
- ✓ Managing ICONET project-International EU project, investigating PI (Physical Internet).

2015-2018: Researcher, University of **Strasbourg**, Inverse problems model calibration :

Parameters and source terms identification; Numerical Predictive modeling; Mathematics; Optimisation; Programming; Data processing; Communication; Porous and fractured media flow.

2016-2018: Teaching assistant at UFR Physic & Engineering, University of **Strasbourg**.

2015(5 months): Thermal-Multi-physics nonlinear-model of Li-ion batteries. **ICUBE/QEER**(**Qatar**).

2014(1 month): Consultant at the **Qatar** Environment and Energy Research Institute (**QEERI**).

2012(4 months): Graduation Project, **OCP-SA** (**Morocco**): Flexibility improvement of the plant, increase system availability: flocculation, decanters, Implementation of an automation system & a GUI.

2010-2011: Technical Manager (10 members) of ENSAcar **Shell Eco-marathon competition EUROPE 2011** (**Germany**): construction of a four-wheel car (category: urban concept).

Skills

Python, Jupyter Lab, Scikit-learn, Pandas, Scipy, Matlab, Numpy, Keras, Tensorflow, Tensorboard, Git, linux, Docker, SQL, Flask, Rest API, Machine Learning, Deep Learning, AWS, HTML5, CSS3, JavaScript, React.

Languages

English: fluent; **French**: fluent; **Arabic:** fluent;

Other

SST (Rescuer first aider), Driving license, Fitness;
Team Member at ADDAL association 2017; Technical leader at ENSAcar2011.