

Data scientist, Software engineer

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Machine Learning, Data-driven model and AI

Certificate & Education

2018: Doctor of Philosophy (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

March-2019-August-2020: Data scientist at Stockbooking (France**)**: PoCs, API development:

- ✓ 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, SARSA, deep-learning);
- ✓ Multivariate time series analysis, demand Forecasting (LSTM, SARIMAX);
- ✓ Pipeline data development;
- ✓ Data cleaning and augmentation.
- ✓ Model training and 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; Optimization; 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).

2013: Technical Manager at GREEN-CAR Construction of a prototype solar-car (**Morocco**).

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, Dask, Numpy, Keras, Tensorflow, Tensorboard, Git, linux, Docker, SQL, Flask, Rest API, Machine learning, Deep Learning, 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.