

# Data scientist, Software engineer

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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

**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; 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**).

**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, 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.