

AHMAD TAY

Researcher in Artificial Intelligence/ Data Scientist

Research scientist with critical thinking skills and five years of experience in predictive modeling, data processing, and data mining algorithms, I am currently looking for a new professional opportunity.

✉ ahmaddtay90@gmail.com
📄 Researchgate

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📍 Plouzané, France

🔗 GoogleScholar



WORK EXPERIENCE

Postdoctoral Researcher

IMT Atlantique

📅 Oct. 2022 – present

📍 Brest, France

- Resreacher at **Laboratoire des Sciences et Techniques de l'information de la Communication et de la Connaissance (Lab-STICC (UMR CNRS 6825)- équipe RAMBO** and at **SMART MACADAM**
- Automatic recognition of environmental noises corresponding to daily human activities
- Extracting acoustic and linguistic indicators from human speech (NLP)
- Developing a diagnostic algorithm using these metrics
- Applications in the field of neurodegenerative diseases

Research and Teaching Associate

INSA

📅 Sep. 2020 – Août 2022

📍 Rouen, France

- Researcher at **laboratoire d'Informatique, de Traitement de l'Information et des Systèmes (LITIS, EA 4108)**
 - Leading a new project in partnership with the SCRADH (Syndicat du Centre Régional d'Application et de Démonstration Horticole)
 - Data cleaning, pre-processing and mining
 - Development and implementation of predictive models
 - Applications in the agricultural sector
- Teaching courses in Machine and Deep Learning (Master of Science: Data Science Expert-ESD), Signal Processing, and Programming (Master: Data Science and Engineering- SID)

Doctoral Researcher

Université de Toulon - LIS (UMR 7020)

📅 Déc. 2017 - Juil 2021

📍 Toulon, France

- Developing of a decision support system in partnership with SCRADH-Hyères
- Implementing soft computing techniques; fuzzy logic, neural networks, and neuro-fuzzy approaches
- Generating a confidence index to measure the reliability of a predicted value
- Creating a graphical interface under Simulink for continuous monitoring purposes

EDUCATION

Ph.D. in Automatic Control, Artificial Intelligence **Université de Toulon**

📅 July 2021

📍 Toulon, France

Master in Biostatistics

Lebanese University

📅 2015

📍 Beirut, Lebanon

Bachelor in Statistics

Lebanese University

📅 2013

📍 Beirut, Lebanon

SKILLS

Mathematics & Statistics

- Inferential, Descriptive, and Bayesian Statistics
- Linear Algebra
- Optimization
- Time Series

Artificial Intelligence

- Machine learning :
 - Classification : Naive Bayes, SVM, Decision trees, KNN, etc.
 - Clustering : probabilistic, hierarchical and non hierarchical
 - Regression : multiple, ridge, lasso and logistic
 - Dimensionality reduction : linear and non-linear (PCA, t-SNE)
- Deep Learning : DNN, CNN, RNN, AE
- Signal processing : Kalman filter, CUSUM, correlation, convolution, windowing, sampling, reconstruction

Software

- Programming : Python (Pandas, Numpy, Keras, Scikit-learn, Matplotlib, etc), Matlab & Simulink, Octave, R, C, \LaTeX
- Databases : SQL server
- Operating Systems : Windows, Linux

Communication

- English : Fluent
- French: Advanced
- Arabic : Native

HUMAN QUALITIES

- Team spirit, autonomous, persevering
- Interpersonal skills, problem solving

CERTIFICATIONS

- Machine Learning, **Stanford University**, 2022
- Data Science Summer School DS3, **l'École Polytechnique X**, 2019

HOBBIES

- Sailing, Reading, Sport