ANIS M. HADDOUCHE

Statistician / Data Scientist.

Statistics graduate (PhD) with a passion for data with over 6 years experience.

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EXPERIENCES

R&D engineer   **IMT Atlantique**

📅 September 2021 – to date   📍 Brest, France

- Implementation of algorithms for the design of collaboration indicators on text documents (NLP)
- Creation of a neural network model (with SpaCy) in order to extract mathematical formulas from text documents
- Dashboards design and implementation

Mentor (freelance)   **Openclassrooms**

📅 January 2021 – to date   📍 Full remote

- monitoring students to obtain their degree in the following three training paths: Data Scientist, Data Analyst and Data Engineer
- Defenses organization in these last three paths

Research and teaching associate   **INSA**

📅 2 years : September 2019 – August 2021   📍 Rouen, France

- Teaching in Statistics, Machine Learning and mathematics (Algebra)
- Researcher at the **LITIS** ➚
- Supervising a master 2 student in his graduation project. The project concerns parametric estimation applied to portfolio optimization in finance.

PhD in Statistics   **Université de Rouen**

📅 3 years : September 2016 October 2019   📍 Rouen, France

- Scale matrix estimation: application in portfolio management (finance) and automatic classification
- Publication of papers in international peer-reviewed journals lecteur and participation to international conferences

Lead manager   **WeBuzz**

📅 10 months : December 2015 - September 2016   📍 Algiers, Algeria

- Development of a commercial detection program in a live video with OpenCv
- Media data analysis

Footwear manufacturer   **Ramo chaussures**

📅 11 months : September 2014 - August 2015   📍 Algiers, Algeria

- Manufacturing Management (family business)
- Manage a team of 14 employees
- Raw materials purchasing responsible

SKILLS

Mathematics & Statistics   ●●●●●

- Inferential, descriptive and Bayesian statistics
- Linear Algebra
- Time series

Artificial intelligence   ●●●●○

- Machine learning:
  - Supervised and unsupervised (Naive Bayes, Knn, ...)
  - Clustering: hierarchical, nonhierarchical, DBSCAN, ...
  - Régression: multiple, ridge, lasso, ...
  - Dimension reduction: linear and nonlinear (ACP, t-SNE, UMAP)
- Deep Learning:
  - RNN, CNN, GAN and Transformers.
  - Natural Language Processing with SpaCy

Computer Science   ●●●●○

- Data visualization: Tableau prep builder, Tableau desktop
- Programming: Python (SpaCy, Pandas, Numpy, Keras, Scikit-learn, Matplotlib, OpenCv, ...), R et Matlab
- Data base: SQL
- Development & Communications: Git, Github, MLflow, Docker, ...

Langues

- English: ●●●○○   French: ●●●●○
- Algerian dialect: ●●●●●

ACHIEVEMENTS

- **Detecting ads in live video**
- PhD thesis: **Scale matrix estimation**
- Major publications in international peer-reviewed journals:
  - **Scale matrix estimation of an elliptically symmetric distribution in high and low dimensions**
  - **Covariance matrix estimation under data based–loss**

EDUCATIONS

Master degree in operations research
USTHB

📅 June 2014　　　　　　　　📍 Algiers, Algeria

- Master in stochastic modeling and forecasting in operations research
- Research internship: **Stochastic volatility models: classical and Bayesian estimation** ➤

Bachelor of science in Statistics
USTHB

📅 June 2012　　　　　　　　📍 Algiers, Algeria

- Bachelor's degree in statistical engineering.
- Research internship: Markov chain Monte Carlo (MCMC) method and variance reduction techniques

CERTIFICATIONS

- **Tableau prep Builder** ➤
- **Data Science** ➤

INTERESTS

- Cinema
- Soccer
- New technologies and videogames

PERSONAL SKILLS

- Thoroughness and perseverance
- High capacity for analysis and synthesis
- Organized, dynamic, motivated and versatile