




# IKNE OMAR



Master-Level Data Science Student

Data Science student looking for a 6 month internship in Machine Learning starting March 2022.

## WORK EXPERIENCE

- **2021 | Data Science Intern** April 2021-July 2021  
Automatic Construction of Biological Interaction Models within Marine Ecosystems using LFIT (Learning From Interpretation Transition) framework.
  - Data pre-processing.
  - Rules improvement using data augmentation and Pareto front.
  - Building an influence graph from the improved rules.
  - Publication of an extended abstract & poster session at an international conference. CRISTAL(Centre de Recherche en Informatique, Signal et Automatique de Lille) - Lille, France
- **2019-2020 | Intern in Computer Science** November 2019-January 2020  
Design and implementation of the computational part for an intravenous infusion simulation application using Matlab.  
 VALUTEC(Center for Innovation and Technological Testing) - Valenciennes, France
- **2019 | Industrial Engineering Intern** June 2019 - August 2019  
A two-month internship at the printing company Manufacture d'Histoires Deux-Ponts.  
 Manufacture d'Histoires Deux-Ponts - Grenoble, France

## ACADEMIC PROJECTS


- **2020-2021 | Research Project** October 2020-March 2021  
Harmonization of brain MR signal using Machine Learning models (Random Forest).
  - Data pre-processing.
  - Dataset construction using the ComBat tool.
  - Building the "Neuroharmony" tool from scratch to harmonize brain MRIs. CHU(Centre Hospitalier Universitaire) Lille - Lille, France
- **2020-2021 | Databases Project**  
Implementation of an algorithm to import an XML document into an SQL relational database, and translating the largest possible fragment of XPath to equivalent SQL queries using Python.
- **2020 | Personal Mini-Projects**   
Implementation of some classic video games and algorithms using Python:
  - Sudoku
  - Game of life
  - Maze Generator
  - Snake

## EDUCATION



















- **2020-2022 | Master's Degree**   
Master's degree in Data Science at the University of Lille - Centrale Lille.  
*Deep Learning, Machine Learning, Signal Processing, Statistics & Probability, Numerical Analysis & Optimization. Kernel Machines,*  
 University of Lille - Lille, France
- **2019-2020 | Bachelor's Degree**   
Bachelor's degree in Mathematics at the Hauts-De-France University.  
*Algebra, Statistics, Probability, Analysis, Topology, Optimization, Linear Algebra, Graph theory*  
 UPHF(Université Polytechnique Hauts-de-France) - Valenciennes, France.
- **2018-2019 | Engineering Student**   
1st year engineering student at Grenoble-INP PAGORA : International School of Paper, Printed Communication and Biomaterials.  
 Grenoble-INP PAGORA - Grenoble, France.
- **2016-2018 | CPGE**   
2-year intensive university-level studies in Maths and Physics in preparation to enter highly-competitive French engineering schools.  
*Math, Physics, Chemistry, Computer Science, Literature.*  
 CPGE IBN GHAZI - Rabat, Morocco

## CONTACT

[Links on icons]

-  omar.iken.etu@univ-lille.fr
-  + 33 7 55 01 40 30
-  47 rue des sarrazins, Lille, France.
-  <https://o-ikne.github.io/>
-  [linkedin.com/in/omar-ikne-144319183](https://www.linkedin.com/in/omar-ikne-144319183)
-  <https://github.com/o-ikne>

## IT SKILLS

- **Languages**
  -  Python
  -  R
  -  Matlab
  -  Javascript
- **Databases**
  -  SQL
  -  Cypher
- **Data Analysis & Machine Learning**
  -  PyTorch
  -  Keras
  -  Matplotlib
  -  Pandas
  -  Scikit-learn
  -  Numpy
- **Graphical user interface**
  -  Pyqt5
  -  Pygame
- **Reports & Presentations**
  -  LaTeX • Latex
  -  Office • Office
- **Operating Systems**
  -  Linux
  -  Windows

## LANGUAGE & INTERESTS

- **Languages**
  - English (ABC) | Professional level
  - French (ABC) | Advanced level
  - Arabic (أب ت) | Native or bilingual
  - Tamazight (ⵜⴰⴷⵓⴷⴰⵢⵜ) | Native tongue
- **Interests**
  - Tennis
  - Strategy games
  - Anime
  - Technology