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]

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- https://github.com/o-ikne
- https://o-ikne.github.io/

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
  - Office
- **Operating Systems**
  - Linux
  - Windows

LANGUAGE & INTERESTS

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