ZAKARIA MEKTOUBI
Data Scientist

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Skills

- **Technical Skills**

  - **Programing languages**: Python, C++, SQL.
  - **Frameworks**:
    - Pytorch
    - Keras
    - Scikit-learn
    - NumPy
    - Pandas
    - Geopandas
    - OpenCV
    - NLTK

  - **BI tools**:
    - MS BI
    - MS SQL Server
    - MySQL
    - PostgreSQL
    - Pentaho DI
    - PowerBI
    - Tableau

- Deep Learning
- Data Mining
- Machine Learning
- Data Visualisation
- Computer Vision
- Data Warehousing
- NLP
- Probability & Statistics
- Web Scraping
- Business intelligence

Soft Skills

- Teamwork
- Good communication skills
- Problem Solving

Volunteer Eperience

- Student Volunteer : **Food Not Bombs**, Budapest Hungary.
- Student Volunteer: **Les enfants Dar Bouidar**, Tahanaoute, Morocco.
- Event Manager: **Enactus ESTS**, Safi, Morocco.

Languages

- **English** : Proficient.
- **French** : Fluent.
- **Arabic** : Native.
- **Tamazight** : Native.

Summary :

Data Scientist with a strong passion for cutting-edge technology and real-world problems With over a year of experience gained through projects and freelance jobs, I have experience in building accurate supervised and unsupervised machine learning models, skilled in machine learning, statistics, data mining, deep learning and programming with python.

🎓 Education

- **2020 - 2022 | Master's Degree in Computer Science for Autonomous Systems.**
  Faculty of Informatics, Eötvös Loránd University - Budapest, Hungry.

- **2018 - 2020 | Master's Degree in Data Science.**
  Faculty of Sciences Semlalia,Cadi-Ayyad University - Marrakech, Morocco.

- **2014 - 2018 | Bachelor's Degree in Business Intelligence.**
  College of Technology - Berrechid, Morocco.

- **2012 - 2013 | High School Diploma in Mathematical Science.**
  Oum-Hani High School - Marrakech, Morocco.

💼 Experience

- **Machine Learning Intern, Cady Ayyad University**
  Marrakech, Mars 2020 - Septembre 020

  - Develop a Moroccan food recognition mobile application that is able accurately to recognize Moroccan dishes from a single image, and it provides a variety of informations as well such as recipe, nutritional value and tutorial video.
  Technologies: Python, Beautifulsoup, Pandas, Tensorflow, keras, opencv, Flask, React Native.

- **Data Scientist Intern, Moroccan Interprofessional Retirement Fund**
  Casablanca, july 2019 - Septembre 2019

  - Develop a Business Intelligence solution for the investment department, to monitor the portfolio with UCITS(Undertakings for collective Investment in Transferable Securities, The solution provides daily dynamic reports.
  Technologies: Python, Beautiful Soup, pandas, Flask, Power BI.

- **Business Intelligence Developer, Saham Insurance**
  Casablanca, April 2018 - june 2018

  - Develop a BI solution for monitoring Bancassurance activity.
  Technologies: MS BI (SSIS,SSAS), Power BI.

📊 Projects

- **Robotics and AI**
  - **Build a self-driving car** using Raspberry Pi and Deep learning techniques
  Technologies: TensorFlow lite, Keras, and OpenCV:

  - **Embedded Metro 1**:Simulate Budapest metro 1 where metros can establish a real-time communication and share data(location, Direction,..) with each other and with stations as well using MQTT(public subscribe protocole).
  Technologies: Python, C, MQTT.

  - **German credit use case:** Develop models for the imbalanced german credit dataset
  models: XGboost, K-means, Hierarchical Agglomerative clustering.

- **Computer Vision**
  - Develop an Intelligent system based on computer vision techniques in order to measure the bubble size and shape distribution of flotation froth, to ensure the quality of the froth.
  Technologies : Python, Opencv.

- **Natural language processing**
  - Develop a web application for Named Entity Recognition and Topic Classification of Arabic newspaper Articles.
  Technologies: Farasa, Scikit-Learn, NLTK,Beautiful Soup, Regex,etc .

- **Business intelligence**
  - Develop a BI solution based on the Northwind database..
  Technologies : Pentaho Server, Pentaho Data Integration, MySQL, PowerBI, XML Mondrian,etc .