ZAKARIA MEKTOUBI

Machine Learning Engineer

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SKILLS

Technical Skills

- **Programing languages**: Python, SQL
- **Frameworks**:
  - Pytorch
  - OpenCV
  - Keras
  - Scikit-learn
  - NumPy
  - Pandas

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

Key Skills

- Deep Learning
- Machine Learning
- 3D Computer Vision
- Image processing
- Web Scraping
- Data Mining
- Data Visualisation
- Data Warehousing
- Probability & Statistics
- Business intelligence

SOFT SKILLS

- Teamwork
- Problem Solving
- Good communication skills

LANGUAGES

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

Summary :

Machine learning engineer with a strong passion for cutting-edge technology and real-world problem With over a year of experience gained through projects and freelance jobs, I have experienced building accurate supervised and unsupervised machine learning models.
Skilled in machine learning, statistics, data mining, deep learing and programming with python.
I'm currently pursuing a master's degree in computer science for autonomous systems at **Eötvös Loránd University**, *Budapest, Hungary.*

🎓 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

- Moroccan food recognition using deep learning, the end result of this project is a mobile and web application as well, it aims to provide a variaty of informations(recipe, nutritional value) of a dish as well provide a tutorial video, by simply take a picture of it
- The Deep learning model used is a Resnet-50 trained on more than 20 000 images scraped from the web

Technologies: Python, Beautifulsoup, Pandas, Tensorflow, keras, opencv, Flask, React Native.

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

- Business Intelligence solution for 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

- Developing a BI solution for monitoring Bancassurance activity.

Technologies: MS BI (SSIS,SSAS), Power BI.

🖼 Projects

Robotics and Computer Vision

- **Raspberry Pi self-driving car** using TensorFlow, Keras, and OpenCV: Equipment:Raspberry Pi 3, Pi Camera Module,Driver Motor dc l298n, Robo Car Kit, Ultrasonic sensor hc-sr04.
- **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).
- **Robust plane detection** on LIDAR point clouds by Ransac algorithm: Implemtation of the sequential ransac algorithm with optimal plane detection .
- **Image stitching** using a homography .
- 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 froth.

Natural language processing
- Named Entity Recognition and Topic Classification of Arabic newspaper Articles
Tools:Scikit-Learn, NLTK,Beautiful Soup, Regex,etc .

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