Derardja Mohamed elamine

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GitHub : **https://github.com/medea-learner**
Portfolio : **https://medea-learner.github.io/**

EDUCATION

Master, Intelligent Computer Systems, USTHB (Algiers) — from 2018 until 2020

Licence, Information Systems and Software Engineering, USTHB (Algiers) — from 2015 until 2018

Mathematics Bachelor, High school Boussam Mohamed Elsherif (BBA) — from 2012 until 2015

ACADEMIC PROJECTS

Classification and Interpretation of Scenes Based on Objects — *USTHB, 2020*

- Design of a new approach for classification of scenes based on objects (CNN, LSTM).
- Design of a new approach for Scene Interpretation that uses the result obtained by classification based on objects (CNN, LSTM)
- Build of a Web Application to show the different features of our approaches (Django).
- Technologies : Tensorflow, Keras, Numpy, ..

Development of POS-Tagger for the Arabic language — *USTHB, end 2019*

- Development of a POS-tagger for the Arabic language under python based on the SAIE tagger (Al Shamsi and Guessoum, 2005).
- The model used is an HMM.
- Build an App to show some use-cases of the POS-TAGGER
- Technologies : Python, PyQt5

Basic Data Miner — *USTHB, end 2019*

- Data Visualization : Statistics & Charts
- Data Preprocessing : Attributes Discretization
- Implementation of Data Mining algorithms : Frequent Patterns, Association rules and

Languages

Arabic : Mother Tongue

English : Full Professional Proficiency

French : Full Professional Proficiency

Machine Learning and Data Science :

Tensorflow, Mxnet, Matlab, Pandas, Numpy, Keras, GluonCV, R, Excel, OpenCV, Scala, Spark

Database :

Oracle database, SQL, NoSQL, IBM db2, SQLAlchemy

Programmation :

C, Java, C++, C#, Python, Perl, PHP

Web Development:

HTML5, CSS3, Javascript, PHP

Flask, Python-eve, Django, FastApi, React, Symfony

Others :

Docker, Kubernetes, Git/Github

Clustering
- Technologies : Java, JFreeChart

Intelligent SAT Solver — *USTHB, end 2019*

- An implementation of different approaches to solve the SAT problem
- Blind search methods : Depth-first, Breadth-first
- Heuristic method : A*
- Metaheuristic : GA, PSO, BSO
- Technologies : Java, JFreeChart

Design of a neural network for the detection of IOT botnet attacks (N-BaIoT: Data for network based detection of IoT botnet attacks) — *USTHB, begin 2019*

- The goal is to study whether or not an IOT is infected by an attack.
- Construction of a NN classifier.
- Test and Evaluate the Designed Classifier.
- Implementation of an application to demonstrate the behavior of the classifier.
- Technologies : Matlab

Study and realization of Steganography by LSB Substitution and LSB Matching — *USTHB 2018*

- Realization of an application implementing Steganography by LSB Substitution and LSB Matching.
- Comparative study between the two methods.
- Technologies : Microsoft Visual Studio, C#

EXPERIENCE

Compose Solution Informatique — *Software Developer*

August 2024 - PRESENT

Used Technologies: Odoo, React, React Native

Immo Media — *Backend Developer*

December 2020 - August 2024

Used Technologies: Flask, Python-eve, sqlalchemy, Docker, Git, Postgresql

Data Glacier — *Data Scientist*

February 2021 - March 2021

Development of web applications using Python

OS :

Linux (Ubuntu), Windows

Office :

Libre Office, Microsoft Office

Soft Skills :

Autonomy, Creativity, Patience

Interests :

Sports, Astronomy, ...

CERTIFICATES

Image Classification with CNN using keras — *Coursera*

Getting started with TensorFlow 2 — *Coursera*

AWS Computer Vision: Getting Started with GluonCV — *Coursera*

Linux Security and Hardening, The Practical Security Guide — *Udemy*

RESTful API with HTTP and JavaScript — *Coursera*

Create a Supermarket app using Java OOP — *Coursera*

ACCOMPLISHMENTS

Docker & Kubernetes : The practical Guide — *Udemy*

Data Science : R Basics — *Edx*

Introduction to Programming in C++ — *Edx*

Python and Django Full Stack Web Developer Bootcamp — *Udemy*

Python and Flask Bootcamp: Create Websites using Flask — *Udemy*