

NOUREDDINE KAMZON

CS Engineer - Artificial intelligence - Computer vision
n.kamzon@gmail.com | +212 6 59 56 75 79 | github.com/kamzon | [linkedin/nouredine-kamzon](https://www.linkedin.com/in/nouredine-kamzon)

EDUCATION

ENSIAS - ENG. DEGREE
EMBEDDED AND MOBILE
SYSTEMS ENGINEERING
2016-2020 | Rabat, Morocco

CPGE MOULAY EL HASSAN
TRAINING FOR ENGINEERING
SCHOOLS.
2014-2016 | Tanger, Morocco

MATH BACCALAUREATE
2014 | Chefhcaouen, Morocco

LINKS

Website:// kamzon.github.io

SKILLS

SOFTWARE SKILLS

- Algorithms.
- Graph Theory.
- Programming Skills: Python, C/C++, Java.
- Web developement: Html,Css,Java Script, ReactJS.
- Database: MySQL, SQLserver.
- Distributed version control: Git.
- Unix, Windows.
- AndroidStudio.

MACHINE LEARNING/DEEP LEARNING

- Supervised learning: Regression (Linear/logistic/polynomial), Classification (KNN,SVM,Decision Tree,Random Forest, Naive-Baiyes ...)
- Unsupervised learning: Clustering (K-Means, Apriori Algo, Hierarchical clustering...)
- Reinforcement Learning.
- Neural networks: CNN, RNN, LSTM...
- Computer Vision: Image segmentation, Object detection, Images classification.

MATH

- Linear Algebra • probability and statistics • Calculus.

FRAMEWORKS/LIBRARIES

- PyTorch • tensorflow • Scikit-learn
- openCV • Keras • Pandas • numpy • scipy.

LANGUAGES

- English • French • Arab.

EXPERIENCE / INTERNSHIPS

HENCEFORTH | CS ENGINEER INTERNSHIP

March 2020 - August 2020 | Rabat, Morocco

Design and implementation of an IM mobile application using computer vision techniques (Deep learning models).

- Development of instant messaging mobile app.
- Training of Deep learning models and deploy them into the application using tensorflow.

FREERAY | SUMMER INTERNSHIP

July 2019 - August 2019 | Rabat, Morocco

Design and implementation of a smart house system controlled by an android app via wifi.

- Recovering data from sensors and control the system using MQTT protocol.
- Plot the data into graphical interface.
- Tools: MQTT protocol, Raspberry pi, ESP8266, Sensors, python.

PERSONAL PROJECT

PATHFINDING VISUALIZER | WEBSITE, JAVA SCRIPT, REACT, GITHUB.

2021 | <https://github.com/kamzon/PathfindingVisualizer.git>

- Build ReactJs application for visualizing pathfinding algorithms.
- Implement graph theory algorithms (Dijkstra, A* algorithm ...).

MACHINE LEARNING ALGORITHMS VISUALIZER | STREAMLIT, PYTHON, ALGORITHMS, GITHUB.

2021 | https://github.com/kamzon/MLAlgos_visualizer.git

- Build web application using streamlit for visualizing Machine learning algorithms.
- Training of Machine learning algorithms.

ACADEMIC PROJECTS

PNEUMONIA DETECTION IN PNEUMOTHORAX RADIO | Object detection - keras - CNN - nih chest x ray dataset.

2020 | <https://github.com/kamzon/Pneumonia-detection.git>

Design and implementation of a computer vision model to detect Pneumonia from chest radiography using CNN.

COLORING/ DENOISING/ COMPLETE IMAGES USING AUTO-ENCODER | keras - CNN - Auto-encoder

<https://github.com/kamzon/auto-encoder.git>

CNN model using auto-encoder for coloring, denoising and complete images.

DEVELOPMENT OF A DASHBOARD RECOVERING DATA FROM DIFFERENT ONBOARD SENSORS. | IOT - MQTT Protocol - Raspberry Pi - NodeMCU - Sensors - Python - influxDB.

- Recovering data from sensors using MQTT protocol.
- Plot the data into a dashboards in graphical interface.

SPARK 2014 COMPILER | C language - Flex - Linux - Scrum

Developement of a compiler Spark2014 programming language, using C language, Flex.