NOUREDDINE KAMZON

CS Engineer - Artificial intelligence - Computer vision

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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, Raspbery 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 ...).

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 - Raspbery 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.