



Rayan Samy RAMOUL

Student in Master 1 Design and Intelligence of Software and Systems

I am a highly motivated and passionate Artificial Intelligence student whose dream is to use my talents in machine learning/AI and statistical analysis to solve real-world problems and make the customer achieve more.

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Education

Master 1 Design and Intelligence of Software and Systems (CILS) / [Paris Saclay](#) Paris, Evry

Since September 2019

Advanced Databases, Machine Learning, Deep Learning, Distributed Calculations, Advanced Algorithms, Agents.

Master 1 in Intelligent Computer Systems / [University of Science and Technology Houari Boumediene](#) Algiers Algeria

From September 2018 to July 2019

Machine Learning, Problem Solving, Knowledge representation and reasoning, Advanced Databases, Natural Language Processing, e-Commerce & Web services.

Bachelor's Degree in Information Systems and Software (17/20 at the end of cycle project) / [University of Science and Technology Houari Boumediene](#) Algiers, Algeria

From September 2015 to May 2018

Advanced Databases, Algorithmic, Logic, Compilation, Operational research, Web Development, Computer architecture, Mathematics, Physics, Analog electronic.

Experiences

Intern, Bachelor's Graduation Project | TALAA, Computer Science Dprt./U.S.T.H.B

For the end-of-license project, develop an application around the technologies of automatic natural language processing and machine learning.

- Scrapping dmoztools.net to create a dataset of Categories:WebSites.
- Proceed to scrap millions of different external websites articles to construct a corpus Categories:Article.
- Developing 3 Machine Learning models for Text Classification based on the built corpus for English, French and Arabic.
- Create an Intelligent File Manager which could automatically classify user's files and documents with support for English, French and Arabic languages.
- Construct a SVM model for classifying between configuration files and normal files (for Linux).
- Implement useful features for the user : favorite files, search by category ..ect.

DevFest Hackathon 2018 | Team Leader A Hackathon organized by Google Developers Group in Algeria, with "Digital WellBeing" as thematic. For that we developed a Chrome Extension for visualizing and optimizing user's browsing data and a browser session system.

Open Minds Club - Head of technical and development unit Open Minds is a scientific club at the U.S.T.H.B aiming to promote the Open Source spirit and the sharing of knowledge between students through different activities.

- Develop websites for the association's events.
- Coordinate a team for development task.
- Events planning : logistic and crisis management.
- Linux Former : Teaching what is Linux, its distributions and environments, how to install it (by theory and by practice) and some bash commands for beginners.

Languages

English



French



Arabic



Skills

Python



NLTK, Tensorflow, Pytorch, Keras, Sklearn, Flask

Artificial Intelligence



Deep Learning, Meta-Heuristics, Machine Learning, Reinforcement Learning

Natural Language Processing



Text Classification, Tokenization, N-Gram, NLTK

Data Processing



Pandas, Matplotlib, Data Cleaning, Scrapping, BeautifulSoup, Numpy

Tools



Linux, Git, Bash

Projects

University Projects

[Findr](#) (Bachelor's Graduation Project)

Creating an application for analyzing documents and their categorizations through the use of automatic language processing tools and machine learning.

Technologies : Natural Language Processing, Machine Learning, NLTK, Scikit-Learn, PyQT4, Python

[Notable \(for Machine Learning module \)](#)

A news reading application with classification of the topics of the articles and their degrees of relevance.

Technologies : Natural Language Processing, Deep Neural Networks, Deep Learning, Genetic Algorithm, PyQt5, Python.

[Swarm-SAT \(for Meta-Heuristics Module \)](#)

Applying Meta-Heuristics and Evolutionary methods (Genetic Algorithm, Particle Swarm Optimization) on MAX-3-SAT problem.

Technologies : Genetic Algorithm, Particle Swarm Optimization, Java.

[Dmoztools.net-Crawler](#)

A python script to explore all websites linked to specified categories.

Technologies : Python, Selenium, BeautifulSoup.

Personnal Projects

[ArcaneChess](#)

Arcane Chess is a modal based on a Deep Reinforcement Learning approach to master the chess game. You can train your own Reinforced Agent and then deploy-it online and oppose him.

Technologies : Deep Reinforcement Learning, Markovian Decision Process, Keras, Python, Javascript

[Steven-knows](#)

Steven is an AI-powered platform for sentiment analysis. Users are able to evaluate their sentences and improve the AI itself with their comments.

Technologies : Python, TensorFlow, Flask, NLTK.

[Deep-Reinforcement-Learning-Notebooks](#)

Practical jupyter notebooks for applying deep-q-learning on gym environments.

Technologies : Jupyter Notebook, Pytorch, Gym, Deep Neural Networks, Deep Reinforcement Learning.

[Simple Neural Style Transfer](#)

A simple app to apply neural style transfer to images. *Technologies : Pytorch, Deep Neural Networks, CNN, Python, PyQt5.*

Interests

Problem Solving Practice problem solving in puzzles or by solving some problems with algorithms

Volunteering Contribute in Open Source projects, or in the development of the Open Source and sharing spirit

Reading Fantasy books

Sport Training at the gym or playing Tennis

Chess Playing occasionally chess, because i like strategy games