Rayan Samy RAMOUL

Student in Master 1 Design and Intelligence of Software and Systems

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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.

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 ofCategories:WebSites.
- Proceed to scrap millions of different external websites articles to construct a corpus Categories:Article.
- Developing 3 Machine Learning models for Text Classificaiton 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 environements, 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)
Your personal News-Reader application !
*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
Practional 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 occasionnally
chess, because i like strategy
games