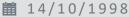


MARWAN MASHRA



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21 rue Andre Maginot 13 309 91400, Paris, France

SKILLS:

Areas of interest

Deep learning, Computer vision, NLP, AI Ethics

Soft skills

Leadership, Teamwork, Communication skills, Time management

Machine Learning Tools

Scikit-Learn, TensorFlow, Keras, PyTorch, Gensim, Transformers, pandas, NumPy, NLTK, OpenCV, PIL

Programming languages

Python, JavaScript, C/C++, Java, PHP, SQL/MySQL, HTML/CSS

Technologies & Frameworks

Docker, MongoDB, Hadoop, Map/Reduce, Flask LaTeX, jQuery

Collaboration Tools

Git, Deepnote, Overleaf, Trello, Jira, Asana

Environments & IDE

Linux, Anaconda (Jupyter), VScode, Eclipse

Programs & Softwares

Word, Excel, PowerPoint, Adobe Premier Pro

LANGUAGES:

English Fluent (TOEIC 920 | 2022)
French Fluent (DELF B2 | 2018)
Arabic Native Language

INTERESTS:

Weight lifting Running Traveling

LOOKING FOR A 3-4 MONTHS INTERNSHIP IN ARTIFICAL INTELLIGENCE STARTING MAY 2022

EDUCATION

2021 (enrolled) Master – Artificial intelligence

Paris, France University of Paris-Saclay

2018 - 2021 Bachelor - Computer science

Montpellier, France University of Montpellier 2017 - 2018 French Language

Montpellier, France Accent Français

INTERNSHIPS & WORK EXPERIENCE

SOFTWARE ENGINEER INTERN

July 2021 - August 2021

LIRMM - RESEARCH LABORATORY, Montpellier, France

- Created a vocal assistant application in Python with a microservices architecture.
- Implemented and built Docker images for the different components of the application.
- Used TensorFlow to build and deploy a machine learning model for emotion recognition.
- Created an interactive web interface to visualize and interact with the data structure.
- Implemented the application in a Raspberry Pi.

WEB DEVELOPER INTERN

June 2020 - July 2020

 ${\sf LIRMM-RESEARCH\ LABORATORY,\ Montpellier,\ France}$

- Designed a digital version of Labo DataViz presented in 2019 by UQAC.
- Collaborated with the team ILE (International Lab to lEarn) to define the project specifications.
- Created an interactive web interface with JavaScript, Python, HTML/CSS.
- Created a Database with MongoDB for the platform.

APP DEVELOPER INTERN

June 2019

 ${\tt PERFORM\ VR-PROJECT\ FIT\ IMMERSION,\ Montpellier,\ France}$

- Helped optimizing a virtual reality android application.
- Helped Improving the correction algorithm of the de la gyroscope drift.
- Tested and debugged the application before deployment on the Play Store.

RESEARCH EXPERIENCE

RESEARCH STUDENT - TRUSTAI

November 2021 - January 2022

University of Paris-Saclay, Paris, France

TRUSTAI challenge aims to address the issue of discriminatory biases in machine learning. During my research internship, I examined several research papers on ethics of AI and worked on data preparation for the challenge.

- Inspected and reviewed the scientific literature on the ethics of AI.
- Studied different forms of discriminatory biases in data.
- Investigated past cases of discrimination in machine learning like COMPAS Software.
- Examined several research papers on metrics for evaluating fairness in ML models.
- Explored multiple datasets that can be used in the TRUSTAI challenge.
- Produced table of statistics, datasheet, plots, and data visualizations of the chosen dataset.
- Built a pipeline to preprocess and format the dataset.

PROJECTS

SENTIMENT ANALYSIS

February 2022

 $A \ sentiment \ analysis \ for \ Amazon \ food \ reviews \ using \ Bert, \ embeddings, \ and \ other \ NLP \ approaches$

• Tools: Python, Scikit-Learn, NumPy, Pandas, Matplotlib, seaborn, Imblearn.

TO-BE CHALLENGE

November 2021

Machine learning challenge, Medical imbalanced data classification, CodaLab

• Tools: Python, Scikit-Learn, NumPy, Pandas, Matplotlib, seaborn, Imblearn.

AERIAL CHALLENGE

December 2021

June 2020 - July 2020

January 2020 - April 2020

 $\label{thm:machine} \textbf{Machine learning challenge, multi-class geographic image classification, CodaLab}$

Tools: Python, Scikit-Learn, Tensroflow, NumPy, Pandas, Matplotlib.

LABO DATAVIZ

Interactive web platform, University of Montpellier

• Tools: JavaScript, Python, HTML, CSS, MongoDB, jQuery, Flask, anime.js. **GEOSCAPE**

Web platform scraping subreddit EarthPorn for images, University of Montpellier

Tools: Python, JavaScript, HTML, CSS, MongoDB, jQuery, Flask, NLTK, Trello.