MARWAN MASHRA

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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, jQuery, LaTeX, MongoDB, Flask

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

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

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

TRUSTAI CHALLENGE – TER   November 2021 - January 2022

University of Paris-Saclay, Paris, France

TRUSTAI challenge aims to address the issue of discriminatory biases in machine learning and to raise participants' awareness about fairness in artificial intelligence. During my short research internship (TER) I examined several research papers on fairness in AI and worked on data preparation for the TRUSTAI challenge.

- Inspected the scientific literature and the state of the art of fairness in artificial intelligence.
- 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 machine learning models.
- Explored multiple datasets that can be used in the TRUSTAI challenge.
- Produced table of statistics, datasheet, several 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

Machine learning challenge, multi-class geographic image classification, CodaLab
- **Tools:** Python, Scikit-Learn, Tensroflow, NumPy, Pandas, Matplotlib.

LABO DATAVIZ   June 2020 - July 2020

Interactive web platform, University of Montpellier
- **Tools:** JavaScript, Python, HTML, CSS, MongoDB, jQuery, Flask, anime.js.

GEOSCAPE   January 2020 - April 2020

Web platform scraping subreddit EarthPorn for images, University of Montpellier
- **Tools:** Python, JavaScript, HTML, CSS, MongoDB, jQuery, Flask, NLTK, Trello.