



## MARWAN MASHRA

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### SKILLS:

#### Areas of interest

Deep learning, Computer vision, NLP

#### Soft skills

Leadership, Teamwork, Communication skills, Time management

#### Machine Learning Tools

Scikit-Learn, TensorFlow, Keras, pandas, NumPy, NLTK, OpenCV

#### 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 (DELFB2 | 2018)  
Arabic Native Language

### INTERESTS:

Weight lifting  
Running  
Traveling

## LOOKING FOR A 3 MONTHS INTERNSHIP IN ARTIFICIAL INTELLIGENCE STARTING MAY 2022

### EDUCATION

2021 (enrolled)	Master – Artificial intelligence University of Paris-Saclay
2018 - 2021	Bachelor – Computer science University of Montpellier
2017 - 2018	French Language 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 (text to speech, speech recognition, emotion recognition, face recognition).
- Used TensorFlow to build and deploy a machine learning model for emotion recognition.
- Designed a data structure for usage scenarios.
- 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

#### TO-BE CHALLENGE

November 2021

Machine learning challenge, Medical imbalanced data classification, CodaLab

- Tools:** Python, Scikit-Learn, NumPy, Pandas, Matplotlib, seaborn, Imbearn.

#### AERIAL CHALLENGE

December 2021

Machine learning challenge, multi-class geographic image classification, CodaLab

- Tools:** Python, Scikit-Learn, TensorFlow, 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.