



# Oussama ZAIBI

## Artificial Intelligence Student

Currently a third-year student at Télécom Paris, specializing in Artificial Intelligence, I am actively seeking a 6-month end-of-studies internship starting in March.

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### Social networks

in @linkedin.com/in/oussamazaibi/

### Skills

#### Programming languages

Python, Matlab, C++

#### Python Libraries

Pytorch, Tensorflow, OpenCV, Scikit-learn, Seaborn, Matplotlib, Plotly, etc.

#### Others

Prompt Engineering, Accelerated computing, Git

#### Tools

Visual Studio Code, Jupyter Notebook

#### Methodologies & Modeling

Agile : Scrum, UML

### Achievements

#### EarthAI Hackathon Dubai Expo 2022

2nd place

#### Sup'Com CyberSecurity CTF 2021

1st place

#### NRW hackathon & Telnets 2021

1st place

#### CSTC Hackathon 2021

3rd place

### Languages

#### English

› TOEIC : 965/990

#### French

Niveau: C1

#### Arabic

Native

#### Spanish

A2

### Work experience

#### Forensic Risk Alliance, AI Engineer – Internship

From October 2023 to January 2024 , Paris

- Extracting, and structure informations from unstructured data.
- Developing a robust image classification system.
- Addressing the security and ethical implications of data extraction in forensics.
- Assessing the effectiveness and accuracy of the developed methods.

**Keywords:** Python, OCR, Document Understanding Transformer, Azure.

#### Altimate AI Inc. Software Engineer – Part-time job

From February 2023 to April 2023 , Silicon Valley

- Tested the backend of the solution by writing unit tests using pytest.
- Built an end-to-end pipeline that takes queries and turns them into data contracts.
- Tested on multiple architectures and prompts to optimize performance.
- Embedded SQL queries in order to efficiently insert them into prompts.

**Keywords:** Python, Git, fastAPI, Pytest, Prompt Engineering, GPT3-3.5, GPT\_Index, Data Contracts, postgresql, Snowflake.

#### Altimate AI, Software Engineer – Founding Member

From March 2022 to August 2022 , Silicon Valley

- Built a low-code data-centric platform that helps data scientists handle their data.
- Highlighted the efficiency of our product using demo notebooks.
- Built a feature that give recommendations based on the input data.
- Participated in the search of investors (Y Combinator, etc).

**Keywords:** Python, Git, Data\_visualization, Data\_profiling, Insights\_generation, Jupyter Notebooks, Ipywidgets.

#### Datagram, Data Scientist – Internship

From July 2021 to August 2021 , Paris

- Implemented a time-series model predicting sales on Amazon.
- Investigated, identified and worked with data engineers to fix corruptions in scrapped time-series data.

**Keywords:** Python, Time-series, Redash, SQL, Jupyter Notebooks.

#### National Agency for Computer Security, Physical Security Engineer – Internship

From July 2021 to August 2021 , Tunis

- Built a temperature and humidity detector that detects, stores, and displays data via an interactive dashboard.

**Keywords:** Arduino, WAMP, HTML, CSS, JS, SQL, ESP8266, Grafana.

### Education

#### Télécom Paris (Ex Télécom ParisTech)

From September 2022 to December 2024 , Paris

Specialization: Artificial Intelligence

#### Higher School of Communication of Tunis (SUP'COM)

From September 2020 to December 2024 , Tunis

Specialization: Information and Communication Technologies

Rank : 10/156

## Certificates

**Fundamentals of Accelerated Computing with CUDA Python**  
Nvidia

**Accelerating End-to-End Data Science Workflows**  
Nvidia

**Data Analysis Track**  
Udacity

**Python for Data Science, AI & Development**  
IBM - Coursera

**The Foundations of Cybersecurity**  
University System of Georgia - Coursera

**Technical Support Fundamentals**  
Google - Coursera

**TenStep Project Manager Certificate**  
TenStep Project Manager Certificate  
TSPM™ - TenStep Academy

**English for Business and Entrepreneurship**  
University of Pennsylvania - Coursera

## Education

- **Preparatory Institute for Engineering Studies of Tunis (IPEIT)**  
From September 2018 to June 2020 , Tunis  
Specialization: Physics and Mathematics  
Rank : 126/1450+
- **Mahmoud Messadi High School Bardo**  
From September 2014 to June 2018 , Tunis  
Specialization: Mathematics

## Projects

### **CNN With Adaptive Response Function Learning for Unsupervised Hyperspectral Super Resolution**

- Research on Hyperspectral Super-Resolution : State of the Art
- Reviewed and Analyzed the research paper.
- Implementation of the proposed unsupervised deep learning based fusion method.

**Keywords: Landsat 8, Autoencoders, Adaptive learning**

### **Coursera Course Recommendation System**

- Generated high quality features from raw tabular data.
- Built a ranking approach inspired by the IMDB Scoring system for movies.
- Developed a Content Based courses recommendation system based on the user's preferences and Coursera Platform data.

**Keywords: Sentiment Analysis, Gradient boosting, Silhouette Analysis.**

### **Automatic Color Enhancement (ACE) Filtering**

- Implemented an ACE algorithm based on histogram equalization in order to fix contrast-deteriorated and poor-exposed images.
- Adjusted the time consumption with a faster approach.

**Keywords: Histogram Equilization, White patch, Gray world, Scaling.**

### **Super-resolution of Satellite Images**

- Implemented and fine-tuned a CNN model on Tunisia's Cap Bon area to study of effect of urbanization on the coastline.
- Conducted a comparative analysis between classic and super-resolution approaches.

**Keywords: Interpolation, Sentinel2, DSen2, Keras, QGIS**

### **COVID patient management in Tunisia**

- Conceptual and relational modeling the database.
- Implementation of the database using Oracle.
- Scenario creation and exploitation of the database.

**Keywords: SQL, Oracle Database, Drawio.**