Oussama ZAIBI

ARTIFICIAL INTELLIGENCE ENGINEERING 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/C++

Python Libraries
Pytorch, Tensorflow, OpenCV, NLTK, Scikit-learn, Seaborn, Matplotlib, Plotly

Others
SQL, Oracle, MySQL, 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 & Telnet 2021
1st place

CSTC Hackathon 2021
3rd place

LANGUAGES

French
Advanced C1

English
Advanced C1
› TOEIC : 965/990

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 an unsupervised image classification model.
- Addressing the security and ethical implications of data extraction in forensics.

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

Altimate AI Inc. Software Engineer - Part-time job

From February 2023 to April 2023 , Silicon Valley

- Established an end-to-end pipeline transforming queries into data contracts.
- Tested on multiple architectures and prompts to optimize performance.
- Solved the querie-length constraint resulting in the ingestion of x8 longer prompts.
- Strengthened the backend by writing unit tests using pytest.

Keywords: Python, Git, Pytest, Prompt Engineering, GPT3-3.5, GPT_Index.

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.
- Collaborated with a team of 8 engineers to develop and launch the platform within a tight deadline of 6 months.
- Highlighted the efficiency of our product via demo notebooks showcased to investors.

Keywords: Python, Git, Data_visualization, Data_profiling, Insights_generation, Ipywidgets.

Datagram, Data Scientist - Internship

From July 2021 to August 2021 , Paris

- Composed a time-series model that predicts sales resulting in higher ranking of our customers's products on Amazon.
- Utilized SQL queries to extract and manipulate large datasets > 5 billion rows, improving data accuracy and efficiency.

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

National Agency for Computer Security, Physical Security Engineer - Internship

From July 2021 to August 2021 , Tunis

- Crafted a temperature and humidity detector that detects, stores, and displays data via an interactive dashboard helping to minimise servers downtime.

Keywords: Arduino, WAMP, HTML, CSS, JS, MySQL, 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

Preparatory Institute for Engineering Studies of Tunis (IPEIT)

From September 2018 to June 2020 , Tunis
Specialization: Mathematics and Physics
Rank : 126/1450+

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^{TM} – TenStep Academy

English for Business and Entrepreneurship
University of Pennsylvania - Coursera

PROJECTS

CNN With Adaptive Response Function Learning for Unsupervised Hyperspectral Super Resolution
- Conducted a review and analysis of the research paper : State of the Art.
- Implemented of the proposed unsupervised deep learning based fusion method.

Keywords: Landsat 8, Autoencoders, Adaptive learning

Coursera Course Recommendation System
- Composed a ranking approach inspired by the IMDB Scoring system for movies.
- Developped a Content Based courses recommendation system based on over 420000 Coursera reviews.

Keywords: Python, 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.
- Optimized computational efficiency through processing image subsets, enhancing overall performance by 50%.

Keywords: Python, Histogram Equilization, Image Processing.

Super-resolution of Satellite Images
- Upgraded and fine-tuned a CNN model on Tunisia's Cap Bon area to study the effect of urbanization on the coastline.
- Conducted a comparative analysis between classic and super-resolution approaches resulting in a +30% improvement.

Keywords: Sentinel2, DSen2, Keras, QGIS.

COVID patient management in Tunisia
- Modeled, consolidated and exploited the database using Oracle.

Keywords: SQL, Oracle Database, Drawio.