Abderraouf Lahmar

 GitHub Profile
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 LinkedIn Profile
 Personal website

EDUCATION

- **Eötvös Loránd University** *2024-2026*
  Master's degree in data science.

- **08 Mai 1945 University, Guelma** *2021 - 2024*
  ranked 1st, Bachelor in Informatics systems. Average: 16/20

- **Mahmoud Ben Mahmoud** *2018-2021*
  Experimental sciences specialty. Average: 16.89

EXPERIENCE

- **Data science Lab 1** *Jan 2025-Present*
  Researcher Eötvös Loránd University, Hungary
  - I am currently interning as a researcher, focusing on distillation techniques for large language models (LLMs), including self-knowledge distillation and reinforcement learning-based approaches.

PERSONAL PROJECTS

- **MAmmoTH LLM paper implementation.** *[GitHub]*
  Re-implementing MAmmoTH LLM paper using QLoRA with Llama-2 7b as a base model.

- **SELF-ALIGN approach implementation.** *[GitHub]*
  Self-aligning a Llama-3.1-8B using QLoRA.

- **Attention is all you need re-implementation**
  From scratch Pytorch implementation of "attention is all you need" paper.

- **Youtube studying chrome extension (incomplete)**
  Creating an AI enhanced chrome extension to help students manage their youtube notes.

- **Image captioning model using transformer architecture**
  Developed an image captioning model leveraging an encoder-decoder transformer-based architecture, achieving a BLEU score of 0.29.

- **Object detection using CNN-based model trained on synthetic data**
  Achieved competitive results compared to the YOLO-V8 model, with a mean Average Precision (mAP) of 0.92.

- **Used-cars dataset EDA, and price prediction using statistical methods.** *[GitHub]*
  Applying some key notions from ISLP book.

TECHNICAL SKILLS AND INTERESTS

Technical Skills: Software engineering , machine learning, RL, Data Analysis, Web scraping
Soft Skills: Team leading skills, scientific writing skills, effective communication, time management.
Field of Interest: Machine learning, NLP, data mining, datascience, Reinforcement Learning

ACHIEVEMENTS

- **Scholarship** Stipendum Hungaricum scholarship awardee. *2025-2027*

RELEVANT READINGS

- **Speech and Language Processing** By Dan Jurafsky and James H. Martin.
- **Natural Language Processing with PyTorch Build Intelligent Language Applications Using Deep Learning.**
- **Reinforcement Learning: An Introduction** By Andrew Barto and Richard S. Sutton.
- **An Introduction to Statistical Learning.** By Gareth James.
- **Introduction to Machine Learning** By Ethem Alpaydın.
- **Linear Algebra and Its Applications** by Gilbert Strang.
- **Fundamentals of Statistical Signal Processing** Steven M. Kay.

Courses and certificates

* **Natural Language Processing with Classification and Vector Spaces** *[Coursera]*

* **Natural Language Processing with Probabilistic Models** *[Coursera]*

* **Advanced Learning Algorithms** *[Coursera]*

* **Supervised Machine Learning: Regression and Classification** *[Coursera]*

* **Introduction to Statistics** *[Coursera]*

* NLP Transformers Course (hugging face) .