

Omar ABEDELKADER

📍 Lille, France ✉ omar.abedelkader@inria.fr 🌐 omarabelkader.fr

About Me

I am an AI researcher with extensive experience in artificial intelligence and software engineering.
I am currently pursuing a Ph.D. in Computer Science at the University of Lille.

Education

| | |
|--|--------------------------------|
| University of Lille <i>Villeneuve-d'Ascq, Nord</i> <i>Ph.D in Computer Science</i> | <i>Oct. 2024 – Present</i> |
| University of Lorraine <i>Nancy, M&M</i> <i>M.Sc. in Natural Language Processing</i> | <i>Sept. 2022 – Sept. 2024</i> |
| Lebanese University <i>Beirut, Lebanon</i> <i>B.Sc. in Data Science</i> | <i>Sept. 2019 – July 2022</i> |

Experience

| | |
|---|--|
| AI Researcher <i>INRIA</i> | <i>Villeneuve d'Ascq, Nord</i> <i>Oct. 2024 – Oct. 2027</i> |
| <ul style="list-style-type: none">Improving code completion and generation using LLMs, specifically targeting the Pharo programming language, which has limited training data.Developing techniques for code completion, type inference, and deployment in Pharo's IDE, with a focus on runtime performance. | |
| AI Engineer <i>INERIS</i> | <i>Verneuil-en-Halatte, Oise</i> <i>Sept. 2023 – Sept. 2024</i> |
| <ul style="list-style-type: none">Developing "INERIS-IA," a tool to classify textual documents based on INERIS's strategic goals using ML and NLP techniquesCreating boolean queries for document retrieval, and improve corpus quality through document similarity and keyword extraction. | |
| Intern - AI Researcher <i>LIPN</i> | <i>Villetaneuse, SSD</i> <i>June 2023 – Aug. 2023</i> |
| <ul style="list-style-type: none">Comparison of various sampling techniques for probabilistic planning, particularly in generating literary narratives.Evaluate different methods, including the Score Function Estimator (SFE) and more advanced techniques like Gumbel-Softmax, to assess their effectiveness in creating coherent and creative stories. | |

Awards and Honors

Best Paper Award (3rd place), IWST 2025, Gdańsk, Poland
"Package-Aware Approach for Repository-Level Code Completion in Pharo"

Talks

ChatPharo: An Open Architecture for Understanding How to Talk Live to LLMs, ESUG 2025
Presentation: [Slides](#) [🔗](#)
Video: *Coming soon*

Mentorship

Google Summer of Code (GSoC), Mentor
[Project Link](#) [🔗](#)

Technologies & Skills

Programming Languages: Python, PHP, Java, R, JavaScript, PHP, MySQL

Machine Learning & Deep Learning: TensorFlow, PyTorch, Keras, Scikit-learn

Natural Language Processing (NLP): SpaCy, NLTK

Big Data & Distributed Systems: Apache Spark, Hadoop

Data Analysis & Visualization: Pandas, Matplotlib, Seaborn

Scientific Computing: NumPy, SciPy

Web Development: Flask, Django, Laravel, ReactJS

Databases & Cloud: MongoDB, MySQL, AWS

Operating Systems: macOS, UNIX, Windows

Research Areas: Artificial Intelligence, Software Engineering

Volunteering

NeuroTech-Lille: President

Ministère de la Transition Écologique: Contributor in Club IA et Transition écologique

Conseil National du Numérique (CNNum): Contributor in Café IA

Croix-Rouge Française: Volunteer First Aider

Hobbies

Water Activities: Swimming · Diving

Outdoor and Adventure Sports: Hiking · Skiing · Skydiving

Creative and Artistic Activities: Photography

Precision Sports: Boxing · Bowling · Golf

Language

French: Native

English: B2



Scan Me !