

Omar AbedelKader

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Lille, France

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Summary

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.

Experience

AI Researcher — INRIA (Villeneuve-d'Ascq, France)
Oct. 2024 – Oct. 2027 - Improving code completion and code 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 — INERIS (Verneuil-en-Halatte, France)
Sept. 2023 – Sept. 2024 - Developed “INERIS-IA,” a tool to classify textual documents according to INERIS’s strategic goals using ML and NLP techniques. - Created Boolean queries for document retrieval and improved corpus quality through document similarity and keyword extraction.

Projects

Pharo-Copilot

- Intelligent code completion and generation tool for Pharo, inspired by GitHub Copilot.
 - Focused on repository and package -level code completion.
 - Leveraged LLMs to improve developer productivity in a dynamically typed language.
 - GitHub Repository:** Pharo-Copilot
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ChatPharo

- Live conversational interface between Pharo developers and large language models.
- Enables interactive discussions with LLMs directly from the Pharo environment.
- Designed an open and extensible architecture to experiment with multiple LLM backends.
- GitHub Repository:** ChatPharo

INERIS-IA

- AI platform developed at INERIS for document classification and knowledge management.
- Built a Flask-based web interface integrating multiple ML and NLP models.
- Trained document classification models aligned with COP 2027 objectives and INERIS strategic themes.
- GitHub Repository:** INERIS-IA

Leadership & Community

- Owner of the Organization **Pharo-LLM**
- Member of the Organizing Committee, GDR-GPL’26
- Sub reviewer at BENEVOL’25
- Project lead for **ChatPharo** and **Pharo-Copilot**

Awards

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

Education

University of Lille — Villeneuve-d'Ascq, France
Ph.D. in Computer Science
(Oct. 2024 – Present)

University of Lorraine — Nancy, France
M.Sc. in Natural Language Processing
(Sept. 2022 – Sept. 2024)

Lebanese University — Beirut, Lebanon
B.Sc. in Data Science
(Sept. 2019 – July 2022)

Skills

- Programming Languages:** Python, Pharo, Java, JavaScript,
- 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

Languages

- Arabic:** Native
 - French:** Native
 - English:** B2
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