LARBI SAID CHIKH

Data Science and AI Student

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OVERVIEW

Actively seeking 2026 internships or full-time roles in: Machine Learning Engineering • Research (NLP, Multimodal AI, Efficient LLMs) • AI Applied Research • Full-Stack AI Products

SKILLS

Programming Languages: Java, SQL, Python, JavaScript, HTML, CSS, C++, C, Kotlin, Flutter, PHP, R

Technologies: GCP, Docker, Spark, Hadoop, Hive, React.js, Next.js, Node.js, Scikit-learn, TensorFlow, PyTorch, Django, Flask, Tailwind, Bootstrap, NPM, Vite

EDUCATION

11/2021 - 06/2026   **Master's Degree in Artificial Intelligence and Data Science**   **National School of Artificial Intelligence**
Enrolled, full-time program

04/2023 - 11/2023   **AI Saturdays Program**   **World Learning Algeria**
A 6 month program about Deep Learning and ML with Python

EXPERIENCE

11/2025 – present   **Master Thesis Intern**   **EURECOM**
Topic: Agentic AI for Orchestration & Management of Telco Cloud

07/2025 – 09/2025 **AI Research Intern**   **Siine**

- Developed and benchmarked deep knowledge tracing models (BKT, DKT, Transformer-based) to track learner mastery over time, improving recommendation accuracy from 78% to 96%.
- Integrated SIINE embeddings with recommender systems to personalize question sequences, reducing cold-start issues.
- Conducted ablation studies on sequence modeling and attention mechanisms; authored technical report.
  `Python / PyTorch / Transformers / Scikit-learn / Recommender Systems`

09/2024 – 11/2024 **Geo AI Research Intern**   **Algerian Space Agency**

- Collaborated on projects involving remote sensing and geospatial data analysis for environmental monitoring.
- Applied machine learning techniques to satellite imagery for land cover classification and change detection.
- Enhanced data preprocessing workflows and contributed to data visualization tools.
  `Python / GIS / Deep Learning / Remote Sensing`

PROJECTS

2024   **Reinforcement Learning for optimization of LLM inference**   **Github Link**

- Developed a reinforcement learning–based framework to optimize the inference of the TinyLlama-1.1B model via pruning and mixed-precision quantization.
- Modeled the task as a Markov Decision Process, with an RL agent deciding pruning rates and per-layer quantization bit-widths.
- Achieved a 2.09% reduction in parameters (from 1.1 billion to 1.038 billion) with only a 0.5% marginal increase in perplexity.
- Implemented in a Kaggle environment with a custom Gymnasium environment and the PPO algorithm.
  `Python / PyTorch / Transformers / RL (PPO)`

2024	**Financial Corporate Health Application with Chatbot**	**GitHub Link**

- Developed a web application that provides financial guidance and budget management for company expenses.
- Integrated a chatbot using natural language processing (NLP) to assist users in navigating financial options and understanding costs.

```
React  /  Flask  /  NLP  /  LLMs  /  Supabase
```

2024	**Story4Kids: Arabic Children Stories Generation**

- Developed a deep learning-based Arabic children's story generation system.
- Collected and annotated 583 Arabic stories with age range, morality, and themes.
- Fine-tuned multiple LLMs (Mistral-7B, SILMA AI, Jais, Llama) to generate culturally and age-appropriate stories.
- Evaluated model performance using linguistic and cultural alignment metrics.

```
LLMs  /  Python  /  Fine-Tuning  /  Mobile App
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2023	**Algerian Forest Mapping**

Created a forest mapping system for Algerian regions, leveraging satellite imagery and GIS technology to monitor forest coverage and assess changes over time. This project aids in environmental monitoring and supports conservation efforts.

```
Python  /  GIS  /  Remote Sensing  /  Image Processing
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2023	**MetroPT3 - Predictive Maintenance**	**Github Link**

Explored the MetroPT-3 dataset to develop robust predictive models tailored for failure prediction and anomaly detection in metro trains. Utilized techniques ranging from Linear Regression, Naive Bayes, and SVM to advanced methods including XGBoost and Neural Networks.

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Scikit-learn  /  Python  /  XGBoost
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2023	**Time Series Analysis: Female Births (1959)**	**Github Link**

Analyzed daily variations in female births in California (1959) to examine seasonality, healthcare influences, and random chance factors helpful for resource allocation.

```
R Language  /  Time Series
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CERTIFICATES

03/2022	**Fundamentals of Deep Learning**	**NVIDIA**
	Credential ID: b19186ad7336472d8a9db760d96431d0	

04/2023	**Responsive Web Design**	**freeCodeCamp**

PUBLICATIONS

2025	**Crafting Culturally Aligned Narratives: LLMs for Arabic Children's Stories**	**Muslims in ML, NeurIPS 2025**
	Houssam-eddine Boukhalfa, Selma Mani, **Larbi Said Chikh** *Accepted paper*	

- Contributed to dataset creation (714 annotated Arabic children's stories), model fine-tuning, and evaluation framework design.
- Introduced cultural-alignment and age-appropriateness metrics for Arabic story generation.

VOLUNTEERING

2024	**AiFest'24 Mentor and Speaker**	**Google Developer Student Club**
	Part of the mentoring team for the annual datathon AiFest'24, sharing data science skills with participants.	

2023	**Organizer**	**AI for Africa**
	Volunteered as an organizer of the international conference AI For Africa'23.	

2023	**Media Team Leader**	**Agrichallenge**
	Led the media team to cover events, ensuring engaging media coverage through photography, videography, and social media content.	

LANGUAGES

English - Professional, **Arabic** - Native, **Tamazight** - Native, **French** - Professional