

# Fahed Kaddou

Machine Learning Engineer

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## PROFESSIONAL SUMMARY

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Machine Learning Engineer with a Master's degree in Artificial Intelligence, specializing in developing and deploying advanced machine learning models. Expertise in Python, TensorFlow, and natural language processing, with a strong track record of creating impactful solutions in collaborative environments. Committed to continuous learning and innovation in AI and data science.

## EDUCATION

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**MSc in Artificial Intelligence** 09/2020 – 06/2023  
University of Sciences and Technologies MB, Oran, Algeria

**BSc in Computer Science** 09/2017 – 06/2020  
University of Salhi Ahmed, Naama, Algeria

## PROFESSIONAL EXPERIENCE

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**The Trybe Agency** 04/2024 – Present — Algiers, Algeria  
*Machine Learning Engineer*  
- Fine-tuned large language models (LLMs) using domain-specific datasets to improve model performance.  
- Developed and deployed machine learning models for various projects.  
- Collaborated with software engineers to integrate AI solutions into production systems.  
- Implemented advanced image processing techniques.

**SARL Forstat** 11/2023 – 01/2024 — Oran, Algeria  
*Artificial Intelligence Developer*  
- Implemented data preprocessing pipelines and feature extraction methods to prepare data for model training.  
- Worked on optimizing algorithms for performance improvements.

## PROJECTS

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- **Football Video Analysis:** Developed computer vision techniques to detect and track players and sports ball, including pass detection between players.
- **Brain Tumor Detection:** Utilized machine learning algorithms for classification tasks.
- **Movies Recommendation:** Created recommendation systems using collaborative and content-based filtering.
- **Wake Word Detection:** Applied neural networks for acoustic modeling to detect keywords from speech.
- **Satellite Image Processing:** Performed segmentation on satellite images to classify regions like seas, mountains, and forests using machine learning algorithms.

## **SKILLS**

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- Proficiency in Python, SQL, and NoSQL databases
- Knowledge of NLP and Large Language Models
- Data preparation, analysis, preprocessing, and visualization
- Experience with machine learning libraries and deep learning frameworks
- Familiarity with cloud platforms (AWS, Google Cloud, Azure)
- Strong problem-solving skills and teamwork

## **CERTIFICATIONS**

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- Data Science Specialization (IBM)
- Artificial Intelligence Engineering Specialization (IBM)
- Generative AI with Large Language Models (DeepLearning.AI)