

MOUAD BAGHDADI

Data scientist

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Skills

- Data Analytics, MLOps Basics
- Machine Learning, Deep Learning
- Web Scraping, Problem Solving
- Python, R, FastAPI
- SQLite, MySQL
- Tableau
- Flutter
- Teamwork, Flexibility, Adaptability

Experience

Machine Learning Research Intern, 07/2024 - 09/2024

New York Univ Of Abu Dhabi - Remote, Abu Dhabi - Summer Intern

- Implemented and Fine-Tuned a "Tiny-LM" language model for code clone detection using the LoRA method, optimizing the model's performance on code snippet comparison tasks following the CodeXGLUE benchmark.
- Developed and executed a process to generate and label code clone datasets, based on a semantic approach that compares random code initializations to classify clones with high accuracy.
- Achieved a maximum accuracy of 97% while using only a small fraction of trainable parameters, demonstrating the efficiency of LoRA compared to traditional fine-tuning, and showcased Tiny-LM's capability to understand code.

Data Scientist Intern, 09/2023 - 10/2023

The Sparks Foundation - Remote, Singapore

- The Sparks Foundation is a company that offers a rotational internship program for students to immerse them in real data science projects and encourage interns. I primarily contributed to the creation of a dashboard for store sales information.

Technical Team Member, 09/2022 - Actuel

School Of AI Club - Alger

- School of AI Algiers is a scientific club at our school, ESI Algiers, and it is the first AI-specialized club in Algeria. We are accustomed to organizing workshops, hosting the "HAICK" machine learning hackathon, and developing machine learning systems for the club.

Projects

- **BddChat**: Un système RAG permet aux utilisateurs d'interroger un manuel de base de données de 150 pages en langage naturel à l'aide d'un pipeline RAG et de recevoir des réponses générées par un modèle linguistique (LLM) basées sur des passages pertinents récupérés du texte.
- **Question Answering Model**: modèle d'apprentissage profond qui peut répondre à des questions en fonction d'un certain contexte, il peut extraire des phrases de réponse à partir de paragraphe donné.
- **Ai Research Paper Classification**: modèle d'apprentissage automatique qui classe les articles de recherche en IA d'arxiv en 4 classes en fonction du résumé de l'article pour une meilleure organisation.
- **Facial Expression Recognition**: un modèle de vision par ordinateur visant à identifier et à catégoriser les expressions émotionnelles représentées sur un visage humain.

Formation

National Higher School of Computer Science - Algiers

Student in Intelligent Systems and Data, focused on: Computer & Data Science, Machine Learning, Data Analysis, Data Visualization, Computer Architecture, Data Structures, Mobile Development.

Higher School of Computer Science 08 May 1945 - Preparatory class

Languages

Arabe

Langue maternelle

Anglais

Intermédiaire supérieur (B2)

Ielts: 6.5 band score

Français

Avancé (C1)

Certifications, formations

- Nvidia - Deep Learning Fundamentals
- DeepLearning.ai - Machine Learning Specialization
- DeepLearning.ai - Deep Learning Specialization
- Google Data Analytics Professional Certificate

Achievements

- Second Place, DataHack: Achieved second place in DataHack, the largest Datathon organized in Algeria by the CSE club, surpassing 24 competing teams.