

CHERGUELAINE AYOUB

AI and NLP engineer

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Algeria


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AI & NLP engineer | Software developer

ABOUT ME

Highly motivated AI and NLP Engineer with a strong background in Software Development. Skilled in various technologies and dedicated to creating innovative Solutions. Passionate about artificial intelligence and NLP, with a particular interest in Generative Language Models.

SOCIAL NETWORKS

 @AyoubCherguelaine

 @ayoub-cherguelaine

LANGUAGES

English

Arabic

French

EDUCATION

Master

From October 2021 to June 2023

Saad Dahleb Blida University, Blida, Algeira

Master degree on NATURAL LANGUAGE PROCESSING (Artificial Intelligence)

Bachelor

From October 2018 to August 2021

Saad Dahleb Blida University, Blida ,Algeria

Bachelor degree on INFORMATION SYSTEMS AND SOFTWARE ENGINEERING

WORK EXPERIENCE

AI Engineer

Since October 2024

Paseetah, Saudi Arabia

- Designed and deployed LLM-powered solutions for task automation
- Built robust data pipelines (Web scraping, Preprocessing, cleaning)
- Refactored and repaired legacy datasets

Part Time LLM Engineer

Since September 2024

Jurai, Remote, Denmark

- Propose RAG and LLM approaches for solution engineering.
- Develop AI agents for user query handling.
- Work on backend and front-end development.

Front End Developer

From February 2024 to January 2025

BuySell, Blida

- Develop and implement front-end solutions using Next.js and TypeScript.
- Conduct thorough testing of APIs to ensure reliability and performance.
- Collaborate with the team to contribute to the software architecture.

Python Developer

From September 2023 to December 2023

SIG Service, Algiers

- Designing and implementing Odoo modules to meet business requirements, API Development & Testing

Artificial Intelligence Intern

From January 2023 to June 2023

icosnet, Algeria,Algiers

- Create an intelligent system utilizing transformers for accurate and context-based classification of company documents.
- Developed an intelligent system base on context for company documents classification.

SKILLS

Technical Skills

- Python (Programming Language)
- JavaScript (Programming Language)
- Transformers , PyTorch, Keras , TF, Pandas , NumPy, LangChain
- Hugging Face Lib , LLM Api ,
- Flask, FastAPI, and Streamlit. Node.js, Express.js
- AWS (S3, EC2)
- Next.js, Tailwind
- MySQL, PostgreSQL, MongoDB, Vector Store
- Git, GitHub, GitLab

Machine Learning

- ML / DL Model Building, Training, Test
- Machine learning Approach Designing
- fine-tuning Transformers
- Data collection, Generation, Extraction, Transformation, Preprocessing
- Prompt Engineering, RAG
- Data pipelines (ETL, ELT)

Software Engineering

- MCD and MLD
- UML conception

PROJECT

Machine Learning (NLP)

- Built models for Document classification ([BERT](#), [BART](#), [GPT2](#) , ...)
- Fine-tune LLMs ([Qwen 8b](#), [llama 3.1](#))
- Legal Chat History (freelance)
- Assurance AI assistant (freeLance)
- Simple chat with LLM ([Gemini](#), [Phi3](#),)
- Generate a dataset for Document classification ([Link](#))

Algorithms & Data Structures

- Designed a meta-heuristic algorithm to solve the SAT 1 problem ([Source Code](#))
- Develop a rule-based search engine using cosine similarity ([Source Code](#)).

Web Development

- Create AI model APIs and Inference ([Spaces](#)).
- real-time chat
- Search Engine ([Source Code](#))
- Drive Storage Application ([Source Code](#))

INTERESTS

Deep Learning

LLM's

NLP

CERTIFICATES

Building Transformer-Based Natural Language Processing Applications

[NVIDIA](#)

Fundamentals of Deep Learning

[NVIDIA](#)