

# 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, Algeria

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](#)