

# Ahmed Achour

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## Summary

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Machine Learning Engineer with expertise in NLP, LLM integration, and cloud-based AI solutions. Skilled optimizing ML workflows, and deploying scalable systems.

## Education

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**Université de Technologie de Sousse**, MS in Big Data 2020 to 2022

- **Coursework:** Machine Learning, Cloud Computing, Deep Learning, Big Data Analytics, Statistical Analysis, Artificial Intelligence, Database Systems, NLP, Computer Vision.

**École Polytechnique de Sousse**, National Diploma in Civil engineering 2014 to 2019

- **Coursework:** Structural Analysis, Transportation Engineering, Roads Engineering.

## Experience

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**Machine Learning Engineer**, Linguamind – Tunis, Tunisia Nov 2024 to present

- Developed and deployed an LLM-powered personalized newsletter system, where each "watcher" focuses on a specific type of foresight (strategic, regulatory, etc.), delivering regular updates to clients. This solution helps top North African banks and governmental institutions save time, stay informed, anticipate risks, and make better decisions.
- Automated data pipelines for scraping and extracting relevant information from news websites and social media platforms, streamlining the process of gathering insights.
- Orchestrated workflows using AWS Fargate and Cron jobs to ensure timely execution of newsletter generation and updates, optimizing for cost efficiency and scalability through serverless architecture.
- Provisioned and managed infrastructure with Terraform, and designed a PostgreSQL database for storing and managing newsletter data, implementing Flyway for schema migrations.

**Machine Learning Engineer**, Quicktext – Sousse, Tunisia 2023 to 2024

- Participated in improving a multi-class classification model performance by using SHAP and Ferret benchmark for detailed evaluation, boosting accuracy by 7%.
- Played an active role in managing the end-to-end machine learning lifecycle, contributing to continuous model refinement and enhancement for intent classification.
- Assisted in guiding LLM output by designing effective prompts and utilizing prompt chaining. Contributed to fine-tuning the LLM to optimize performance for specific use cases and helped implement a RAG system to enhance access to domain-specific data.

**Freelance Developer**, Self-Employed – Sousse, Tunisia Sep 2023 to Oct 2024

- Developed a document processing pipeline for accurate text extraction from historical documents (19th century) using data pre-processing techniques and OCR.
- Built a question-answering API powered by GPT 3.5 API for a specific book corpus.
- Performed Text transliteration from English to Arabic with GPT 3.5, followed by Text clustering of hotel names using Agglomerative Hierarchical Clustering.

**Software Tester**, Dräxlmaier – Sousse, Tunisia Sep 2023 to Oct 2024

- Performed functional testing of cable harness software, including test case design, execution, and bug reporting.

**Computer Vision Intern**, ENOVA robotics – Sousse, Tunisia Oct 2021 to Aug 2022

- Fine-tuned a CGAN model (pix2pixHD) for robotic anomaly detection in wire fences, using synthetic generated images.

## Courses & Trainings

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CS231n by Andrej Karpathy Winter 2016

NYU Deep Learning by Alfredo Canziani Spring 2021

Complete Data Science Bootcamp by Udemy

Datacamp: Developing AI Applications Track

## Technical Skills

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**Machine Learning:** Data analysis, Model Evaluation,

**Cloud & DevOps:** Pytorch, FastAPI, Flask, Objective-C, C#, SQL, JavaScript

**Data & API development:** .NET, Microsoft SQL Server, XCode, Interface Builder

## Languages

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**Arabic** : native , **French** : native , **English** : professional