

# Malek Abida

## ICT Engineering Student

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🌐 <https://www.linkedin.com/in/malekabida/> | 🐙 <https://github.com/Malek0007>

🌐 My Website <https://malek0007.github.io/Portfolio/>

### PROFILE

I am a motivated final-year ICT engineering student, equivalent to Master's degree. I have a passion for **Artificial Intelligence** and **DevOps**, particularly in **Machine Learning**, **Generative AI** and **MLOps**. I am seeking a **6-month internship** for my **end of Master's degree**.

### EXPERIENCE

- **Huawei** 🌐 08/2024 – present  
Tunis, Tunisia  
*AI Intern*
  - Developed a dashboard to display Huawei Nodes information using **MERN Technologies**. [🐙]
  - Incorporated **data processing and visualization** techniques, which improved the efficiency of node management by 30%.
  - Developed a customized Q&A **chatbot** using the **GPT-4** model, improving user experience by providing accurate responses.
  - Deploying the user dashboard application on Huawei Cloud.
- **Comar Insurances** 🌐 07/2024 – 08/2024  
Tunis, Tunisia  
*AI / Generative AI Intern*
  - Explored **Natural Language Processing (NLP)** techniques for text processing. [🐙]
  - Researched and applied advanced techniques in **Generative AI** and **Fine Tuning** to enhance text generation capabilities.
  - Developed a text generation application using **NLP** and **HuggingFace** models for Large Language Models (**LLM**) techniques.
- **Tunisian Post** 🌐 07/2023 – 08/2023  
Tunis, Tunisia  
*Machine Learning Intern*
  - Explored the applications of **Artificial Intelligence** in the financial sector. [🐙]
  - Developed a price prediction model using **Linear Regression** Algorithm of **Machine Learning** with 98% accuracy.

### EDUCATION

- **Higher School of Communication of Tunis (SUP'COM)** 🌐 09/2022 – present  
Ariena, Tunisia  
*ICT Engineering Diploma*
- **Tunis Preparatory Engineering Institute (IPEIT)** 🌐 09/2020 – 06/2022  
Tunis, Tunisia  
*Admission in National Competitive Examinations for access to the Engineer Training Cycles*

### PROJECTS

- **AI-Assisted Data Migration using Generative AI** 09/2024-present  
*Tools: Generative AI, data engineering, NLP, LLM, Machine Learning*
  - Researched Predictive Analysis of data schemas using **NLP**.
  - Researched techniques for the Automatic Generation of Migration Scripts, focusing on improving efficiency and accuracy in data migration processes.
  - Explored the use of Generative Adversarial Networks (**GANs**) for data validation and quality assurance.
- **Plant disease detector** 07/2024  
*Tools: Deep Learning, MLOps* [🐙]
  - Researched and identified the most accurate deep learning algorithm for this model.
  - Built an end-to-end deep learning project for image classification using **CNN** to detect plant diseases.
  - Deployed the model using **MLOps** practices.

- **Cloud Native e-commerce application with devops automation**

01/2024-06/2024

Tools: Docker, Kubernetes, Jenkins, Pytest



- Researched microservices architecture, **DevOps** tools, and practices.
- Developed a MERN e-commerce platform for smart home devices.
- Implemented a microservices architecture to enhance testing capabilities, inspired several teams to adopt microservices.
- Integrated DevOps automation tools and deployed the application on Microsoft Azure.

- **My Chatbot**

03/2024

Tools: NLP, Deep Learning, Flask



- Implemented **NLP** techniques to preprocess and analyze user inputs before passing them to the classification model.
- Trained a **deep learning** model using Keras and TensorFlow to classify user inputs (sentences) into predefined intents, allowed the program to respond appropriately based on a JSON file.
- Developed a Flask-based chatbot web application that uses **NLP** and the trained **deep learning** model to facilitate interactive user engagement.

## SKILLS

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- **Artificial Intelligence :**
  - \* **Frameworks & Libraries:** Scikit-Learn, TensorFlow, Keras, PyTorch
  - \* **Natural Language Processing (NLP):** NLTK, SpaCy, Hugging Face
  - \* **Generative AI (GenAI):** GPT4-model, GANs
- **Programming Languages:** Python, MATLAB, C++, C, Kotlin
- **Web Technologies:** React.js, Node.js, Flask, HTML, CSS, JavaScript
- **Database Systems:** MySQL, MongoDB
- **Software Development Tools :** Git, Docker, Kubernetes, Jenkins, Pytest
- **Operating Systems :** Windows, Linux
- **Cloud Computing Platforms:** AWS, Microsoft Azure

## VOLUNTEER EXPERIENCE

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- **Python Teacher: "Python For All"**

12/2022 - 06/2023

Kaffel Al Yatim



- Taught students the basics of the **Python** programming language at the Kaffel Al Yatim association, Ariena.
- **Skills:** Team Collaboration, Communication, Creativity, Problem Solving.

## LANGUAGES

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- English : Level B2 , **TOEIC** Score: 840/990
- French : Level B2
- Arabic : Native