Malek Abida

ICT Engineering Student

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in https://www.linkedin.com/in/malekabida/ | ⓞ https://github.com/Malek0007

🌐 **My Website** https://malek0007.github.io/Portfolio/

PROFILE

A motivated final-year ICT engineering student with a passion for **Artificial Intelligence**, particularly in the fields of **Machine Learning, Deep Learning, NLP and Generative AI**. Seeking a **6-month internship** for my end-of-study project starting from January.

EXPERIENCE

- **Huawei[🌐]** — *08/2024 – present* — Tunis, Tunisia [ⓞ]
  AI Intern
  ◦ Developed a **MERN** dashboard to display Huawei Nodes information.
  ◦ 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 associated with EY Tunisia** — *09/2024-present*
  Tools: Generative AI, 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.

- **Text Summarizer** *04/2024*

  Tools: Hugging Face,Flask
  [⟲]
  - ◦ Researched Hugging Face Transformers and Pre-trained Models.
  - ◦ Developed a Flask web application for automatic text summarization.
  - ◦ Integrated the **Hugging Face** BART model to generate text summaries based on user-defined summary length.

- **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

- **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
- **Mathematics:** Calculus, Linear Algebra, Probability, Statistics, Optimization
- **Database Systems:** MySQL, MongoDB
- **Software Development Tools :** Git, Docker, Kubernetes, Jenkins, Pytest
- **Operating Systems :** Windows, Linux

AWARDS

First Place at "Challenge Projets d'Entreprendre", competed against 30 teams *05/2024*

Sup'Com
[⊕]
- Developed a prototype of mobile application for the digitalization of contracts using **AI** techniques OCR, **NLP**, and **LLM**.

Second place at artificial intelligence national summit 2023 *06/2023*

IEEE INSAT SB
[⊕]
- Developed a website resembling a virtual legal assistant, leveraging **LLM**s to identify and highlight ambiguities and contradictions within contracts.

Skills : Team Collaboration, Communication, Creativity, Problem Solving.

VOLUNTEER EXPERIENCE

- **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:** Python

LANGUAGES

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