HAMDA HMIDA

📅 10/07/2000   @ hamda.hmiida@gmail.com   📞 +33 7 48 29 75 31   📍 Toulouse, France
in www.linkedin.com/in/hamda-hmida

PROFESSIONAL EXPERIENCES

Graduation Internship
AIRBUS

📅 March 2024 – September 2024   📍 Toulouse

- Developing an interactive flight planner that integrates weather conditions, air traffic control, and airline operational centers, ensuring safety through a fusion of classical and model-based methods.
- Creating Reinforcement Learning algorithm to assist the pilot while performing a flight diversion in emergency case that ensure reaching the nearest airport under certain conditions like time, fuel consumption and diversion cost

Software Engineer (Part time)
ReDX Technologies

📅 September 2023 – January 2024   📍 La Marsa

- Investigated the application of MONAI, a deep learning framework for medical imaging, to the analysis of digital rock core images for oil and gas exploration.
- Evaluated the effectiveness of MONAI compared to traditional methods, assessing its potential for future digital rock physics research.

Engineering Internship
ReDX Technologies

📅 June 2023 – August 2023   📍 Sfax

- Conducted in-depth research to address workflow pain points, involving ESRGAN for image super resolution, FCM for segmentation, a linear solver for equations and stitching approaches for images combination.

ACADEMIC BACKGROUND

NATIONAL ENGINEERING DEGREE
Ecole Polytechnique de Tunisie , University of Carthage

📅 Sept 2021 – Sept 2024

Multidisciplinary Engineering Studies-Masters of Engineering majoring in **Signal and Systems**

- **Course Overview**
  Computer Science, Applied Mathematics, Data Structures and Algorithms, Data Science, Machine Learning, Signals and Systems, Mechanics and Structures, Physics, Economics & Human Languages.

PRE-ENGINEERING CYCLE
The Preparatory Institute for Engineering Studies of Monastir

📅 Sept 2019 – June 2021

- **Course Overview**
  Real Analysis, Algebra, Physics, Chemistry, Algorithms, Computer Science, Material science & Mechanical engineering.

Finished by succeeding in the national pre-engineering exam (Physics - Chemistry) with a national rank : 8 / 1000
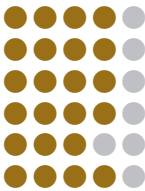
ABOUT

Fast learner and hard-worker with an attention to detail and a knack for problem solving and providing very optimized solutions. Passionate and motivated and keen on developing my skills to the maximum of their potential.

CERTIFICATES

◉ Neural Networks and Deep Learning
▪ Machine Learning with Python

PROGRAMMING AND IT TOOLS

Python	●●●●○
C/C++	●●●●○
Java	●●●●○
SQL	●●●●○
bash scripting	●●●○○
Git	●●●●○

TECH KNOWLEDGE

Data analytics   Machine Learning
Reinforcement learning   Planning
Programming   Computer Science
Problem Solving

SOFT SKILLS

Teamwork   Communication
Leadership   Time management

LANGUAGES

English	●●●●○
French	●●●●○
Arabic: Native	