

Malak AIDI

Software Engineering Student : AI & ML and Data Science Specialist

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SUMMARY

As a final-year computer engineering student at École Polytechnique de Sousse, I'm passionate about AI, machine learning, and data science. With hands-on experience in data analysis and AI-driven projects, I'm eager to apply my skills to solve real-world challenges. Let's connect and explore impactful opportunities!

SKILLS

Hard Skills

- **Programming Languages** : Python
- **Machine Learning** : Supervised & Unsupervised Learning, Deep Learning, Model Evaluation
- **Artificial Intelligence** : Neural Networks, Natural Language Processing (NLP), Computer Vision
- **Data Analysis** : Data Cleaning, Exploratory Data Analysis (EDA), Statistical Analysis
- **Data Visualization** : Power BI, Matplotlib, Seaborn
- **Frameworks & Libraries** : TensorFlow, Keras, Scikit-learn, PyTorch
- **Big Data Technologies** : Hadoop, Spark
- **Data Manipulation** : Pandas, NumPy, SciPy
- **Version Control** : Git, GitHub

Soft Skills

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|-------------------|-----------------|----------------------|
| • Leadership | • Communication | • Problem-Solving |
| • Time management | • Adaptability | • Team Collaboration |

CERTIFICATIONS

- Applications of AI for Predictive Maintenance : NVIDIA
- Building Transformer-Based Natural Language Processing Applications : NVIDIA
- Fundamentals of Deep Learning : NVIDIA
- Exploratory Data Analysis for Machine Learning : IBM
- Machine Learning with Python : IBM
- AI-900: Microsoft Azure AI Fundamentals : Microsoft Azure
- IT Specialist – Python : Certiport
- IT Specialist – Database : Certiport

PROJECTS

- **Facial Recognition Model :**
 - Developed and implemented a facial recognition system using machine learning algorithms, enhancing real-time facial feature identification.

Tool Used : Python, Google Colab, Kaggle.
- **Twitter Sentiment Analysis :**
 - Created a sentiment analysis model to categorize Twitter comments into positive, negative, or neutral sentiments, improving social media insights.

Tool Used : Python, Google Colab , Kaggle.
- **Agriculture & Livestock Tax Analysis :**
 - Scraped and collected tax data from websites across North African countries, ensuring data accuracy and comprehensiveness.
 - Visualized data using Power BI to explore differences in tax structures between nations and extract actionable insights.

Tool Used: Python, Google Colab, Power BI, Web Scraping, Data Processing.
- **Celestial Navigation for Drones :**
 - Initiated a project focused on developing a celestial navigation system, enabling drones to self-position using celestial bodies instead of GPS.

Tool Used: Research & Development, Image Processing, AI/ML Techniques.
- **Slideshow Maker :**
 - Developed a web-based application that creates coherent videos from entire photo albums, incorporating smooth transitions and customizable features for user-defined preferences.

Tool Used: Python, Flask, Video Processing Libraries, HTML, CSS.

EXPERIENCES

Sept 2024 – Oct 2024 (Summer Internship)

SARAB Unmanned Systems

➤ AI/ML Specialist :

- Conducted extensive research on star systems and celestial theories to support the development of an AI and ML model for celestial navigation.

Technical Environment: Research & Development, Image Processing, AI/ML Techniques.

Jun 2024 – Aug 2024 (Summer Internship)

DNEXT Intelligence SA

➤ Data Analyst :

- Analyzed agricultural and livestock import/export taxes across North African countries, including Tunisia, Egypt, Algeria, and Morocco.
- Gathered and processed reliable data from various sources to support comprehensive analysis.

Technical Environment: Power BI, Data Scraping, Data Analysis.

• Jun 2024 – Jul 2024 (Virtual Internship)

InternCareer

➤ NLP Specialist :

- Applied natural language processing (NLP) techniques to perform sentiment analysis on Twitter comments, providing insights into user emotions and feedback.

Technical Environment: Python, Google Colab , Kaggle, NLP.

- **Aug 2023 – Sept 2023 (Summer Internship)**

ARSII Association

- **AI/ML Specialist :**

- Gained hands-on experience in building and deploying AI-based systems, particularly facial recognition models.

Technical Environment : Python, Google Colab, Kaggle, AI & ML.

EDUCATION

- Engineering Cycle : Computer Engineering (École Polytechnique de Sousse) **Sept 2022 – Present**
- Bachelor's Degree : General Physics (Ecole Sup des Sciences et technologies de HS) **Sept 2019 – Jun 2022**
- Baccalaureate : Experimental Science (Lycée Jawhra Sousse) **2019**

AWARDS & ACHIEVEMENTS

- **2024 : AI Night Challenge, 3rd Edition By ARSII**

Awarded First Place in the 'SkillSynergy' challenge presented by the startup JuniorsCV.

- **2024 : AI Night Challenge, 3rd Edition By ARSII**

Awarded First Place in the 'AI Visionary Challenge : Transforming Moments into Motion at Pristini School of AI' presented by Pristini Language and Training Institute.

LANGUAGES

- **Anglais :** Level C1 (EF Set Certificate)
- **Français :** Level B2 (DELFI Certificate)
- **Allemand :** Basic

CLUBS & ACTIVITIES

- **2024 :** Executive Member at « **ACM EPS** » (Vice-chair)
- **2023 :** Logistics Manager at « **TCPC 2023** »
- **2023 :** Executive Member at « **ACM EPS** » (General Secretary, HR Manager)
- **2023 :** Executive Member at « **We Lead Club** » (HR Manager)
- **2022-2024 :** Executive Member at « **IEEE EPS SB** » (Treasurer, General Secretary)
- **2022 :** Active Member at « **ARSII** »
- **2022 :** Active Member at « **GDSC EPS** »