

# Abdessalem MAMI

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## Education

ESPRIT, School of Engineering	Sept. 2021 - present
Diploma in Software Engineering (Artificial Intelligence)	
Higher Institute of Informatics, University of Tunis El Manar	2018 - 2021
Bachelor of Science in Computer Science	
Pioneer High School of Nabeul	2013 - 2017
High School Diploma, Mathematics	

## Technical Skills

Machine Learning	Python	Oracle / SQL Server	Django / Flask
Web Development	Java	SQL / PLSQL	Node.js
Unix Scripting	C/C++	MongoDB	Java EE
Data Engineering	CSS / JavaScript	SCRUM / CRISP-DM	Scikit-learn

## Professional Experience

**SASLAB** Nabeul, Tunisia  
*Machine Learning Intern* July 2022 – Aug. 2022

- Designed and implemented an Emotion Recognition System (ERS) for facial expressions and speech using Deep Learning.
- Built a backend application server to deploy the ERS' models.
- Built a user-friendly mobile application to capture facial expressions and speech and recognize emotions.

**Tools and technologies:** Computer Vision, TensorFlow, Flutter, FastAPI, Python.

**SPX - Dynamics 365 FO Partner** Tunis, Tunisia  
*Web Development Intern* Feb. 2021 - June 2021

- Collaborated closely with cross-functional teams to identify requirements and set milestones for the development of a Supplier Relationship Management (SRM) web application in the framework of the bachelor's degree final project.
- Designed and implemented the application's database architecture in collaboration with the project team.
- Facilitated and digitized the business process of managing quality incidents costs between the company and its suppliers by designing and developing a cost management module within the SRM application.

**Tools and technologies:** Flask, Python, MySQL, JavaScript, and Bootstrap 4.

**Advences** Nabeul, Tunisia  
*Web Development Intern* Aug. 2020

- Improved user profile functionalities by redesigning and implementing view and modify user profile features within a financial management platform that allows companies to create financial reports and manage requests for quotations from third-party organizations.

**Tools and technologies:** Symfony, PHP, JavaScript and Bootstrap 4.

## Projects

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### TuringCare

May 2022

- Designed, trained and evaluated multiple ConvNet models for lung diseases detection (Covid-19, Tuberculosis, Viral Pneumonia) based on chest X-Ray image classification.
- Designed and built a web platform to enable effective disease response by providing an easy management and access to patients' records and their chest X-Ray classification results.
- Deployed and implemented the trained CNN-based model on the web platform.
- Provided visual factors leading to classification results by implementing GRAD-CAM heatmaps within the platform.

**Tools and technologies:** Anaconda, Python, TensorFlow, Keras, Django.

### PharmData

Oct. 2021 - Dec. 2021

- Analyzed and explored a pharmacy database to identify and define business objectives.
- Integrated data by extracting from pharmacy databases, transforming and loading into a data warehouse.
- Trained and evaluated machine learning models for descriptive and predictive analysis including client and supplier segmentation, basket analysis, sales forecasting and item price prediction.
- Designed and built a web application to deploy the trained models and provide data visualization.

**Tools and technologies:** Anaconda, Python, Django Web Framework, Power BI, SQL Server Integration Services (SSIS), and SQL Server Management Studio (SSMS).

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## Certifications

Fundamentals of Accelerated Computing with CUDA C/C++	NVIDIA DLI, June 2022
Feature Engineering	Kaggle, Apr. 2022
Intermediate Machine Learning	Kaggle, Mar. 2022
Fundamentals of Deep Learning	NVIDIA DLI, June 2022
Python Basics for Data Science	IBM, July 2021
Python Essentials	IBM, July 2021
Introduction to Programming Using HTML and CSS	Microsoft, Jan. 2021
Master the Mainframe 2020 - Level 2	IBM, Nov. 2020

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## Achievements

AI HACK Tunisia 2022 - Store Product Forecasting Challenge	Ranked 6th
IEEE ENSI Student Branch - GO Data Science Challenge 2021	Ranked 6th out of 52
Zindi - UmojaHack Africa 2022: Faulty Air Quality Sensor Challenge	Ranked 12th out of 493
Zindi - African Trailblazers Qualification Challenge 2022	Ranked 24th out of 259
GeoAI Hack 2022 Crop Type Classification Challenge	Ranked 17th out of 77

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## Volunteer Experience

### DeepFlow

Tunis, Tunisia

Vice Chairman

Aug. 2022 - Present

### ArtBox ISI

Tunis, Tunisia

Team Leader & Human Resources Manager

Sept. 2020 - Sept. 2021