

Oumayma Sghayri

Penultimate year of studies in Telecommunications Engineering

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Education

- TELECOMMUNICATIONS ENGINEERING**, *National School of Engineers of Tunis-ENIT* ✎ 2021 – present
Manar
- **Principle coursework:** Optimization, Probability, Statistical inference, Algorithms, Networks, Software engineering and database, Entrepreneurship.
- MATHEMATICS & PHYSICS PRE-ENGINEERING SCHOOL STUDIES-IPEIT**, 2019 – 2021
Preparatory Institute for Engineering Studies of Tunis-IPEIT ✎
- **Principle coursework:** Linear Algebra, Advanced Mathematics, Physics, Chemistry, Object-Oriented Programming (Python).

Professional Experience

- Computer Vision Engineering Internship**, *SFM Technologies* ✎ 06/2022 – 07/2022
- Developed an algorithm that detects motion outside working hours through surveillance camera system.
 - Communicated captured motion pictures through FTP server and Whatsapp.
 - Implemented an alarm notification system that alerted the company.
 - Notified designated personnel through a website notification.
- Utilized:** Python, Flask, FileZilla, HTML, CSS, MongoDB.

Certificates

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| Introduction to DevOps ✎
offered by IBM | Docker Training Course for the Absolute Beginner ✎
offered by KodeKloud | Supervised Machine Learning: Regression and Classification ✎
offered by DeepLearning.AI | Programming foundations with JavaScript, HTML and CSS ✎
offered by Duke University |
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Projects

- Self-Driving Robotic Car with Tunisian Traffic Sign Detection using Raspberry Pi**, *Second Year End Project*
- Collected and labeled a dataset of Tunisian traffic signs to train the machine learning models.
 - Developed a traffic sign detection model using Tensorflow Lite and trained it with the labeled dataset.
 - Developed a lane detection algorithm to keep the car on the road and prevent it from drifting.
 - Integrated the lane detection and traffic sign detection models into a unified system that controls the movement of the car.
- Utilized:** Computer Vision, Machine Learning, DeepLearning, OpenCV, Raspberry Pi, Raspbian, L298n, Python.
- Control of a robot by voice recognition**, *Academic*
- Utilized:** C++, Arduino, MIT App Inventor, Proteus 8 Professional.
- Mini .Net/C# programming project: Creation of an online forum**, *Academic*
- Utilized:** C#, ASP.NET, Visual Studio.
- Mini project in C language for the management of a bank account**, *Academic*
- Utilized:** Codeblocks, Object-Oriented Programming.
- Mini project in C++ language on QT for the management of a library**, *Academic*
- Utilized:** Qt, Object-Oriented Programming.

Skills

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| Programming
Python, SQL, C, C++, Matlab | Database
Oracle, MySQL, MongoDB | Embedded boards
Arduino, Raspberry Pi | Operating System
Windows, Ubuntu, Raspbian |
| Frameworks
ASP.NET, Flask, Qt | | | |

Organizations

- IEEE ENIT Student Branch**, *Chairwoman* 2022 – present
- Interact Club Tunis Inner City**, *Active Member* 2018 – 2019

Awards

- 3rd Place Code in the Dark Tunisia competition in HTML and CSS**