AHMED CHERIF

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Education

- **Preparatory Institute for Engineering Studies (ranked 61 among 1200 candidates)** , IPEIS *2 years*
- **National School of Computer Science** Manouba, Tunisia *engineering diploma* *3 years*
- **Baccalaureate Diploma in mathematical Science**

Research Experience and Projects

- **Device Controller Over the internet:**

The purpose of this project is to controlling devices and collecting data over the internet.

Keywords: IOT, MCU32, Node-Red, MQTT

- **Design and development project: PAN Card Tampering Detection:**

The purpose of this project is to detect tampering of PAN card using computer vision. This project will help different organization in detecting whether the Id i.e. the PAN card provided to them by their employees or customers or anyone is original or not.

Keywords: Data Science, Computer vision, Web development, Flask, Python, JavaScript

- **Text Extraction from Images Application:**

In this project, I have worked on extracting text from images. After extracting the text by applying, some basic functions of OpenCV on that text to enhance it and to get results that are more accurate, it will save time and effort of typing from an image.

Keywords: OCR, Computer vision, Web development, Flask, Python, JavaScript

- **Plant Disease Prediction APP:**

In this project, I have created a Convolutional Neural Network, which will be able to predict whether a plant is suffering from a disease. I have used different layers and other hyper parameters for building, training and testing this classification model.

Keywords: Data Science, CNN, Computer vision, Web development, Flask, Python, JavaScript

- **Vehicle Detect-Count APP:**

Vehicle Detect-Count APP: In this project, I have worked on detecting and counting vehicles in a given image or a video. I have used OpenCV for image processing and Haar cascade which is used for object detection

Keywords: Data Science, CNN, Computer vision, Web development, Flask, Python, JavaScript

- **Sentiment Analysis Django App:**

A sentiment analysis tool is an AI software that automatically analyzes text data to help you quickly understand how customers feel about your brand, product or service.

Keywords: NLP, NLTK, Django, JavaScript, Logistic Regression, Web development

- **Web Direction Detection React App:**

In this model, I have detected hand directions for integration in a React Js Web App with Tensorflow Js.

Keywords: React, Tensorflow JS, API, Tensorflow

- **Face Sentiment Detection with Raspberry Pi**:

I have estimated facial sentiment using Tensorflow Object Detection on a Raspberry Pi with TFLite.

Keywords: Raspberry Pi, Tensorflow, Python

- **Coronavirus tracker app with Spring Boot and Java:**

In this project, I have built a Java Spring Boot application from scratch to track reported data of confirmed Coronavirus infections COVID-19 (2019-nCoV) around the world.

Keywords: Spring boot, Thymeleaf, API

Summer Internships

- **Sign Language Detection using ACTION RECOGNITION with Python**

Centre de recherche en numérique de Sfax

The proposed internship project aims to develop a system that will recognize static sign gestures and convert them into corresponding words.

Keywords: LSTM, Tensorflow, Python

Skills Summary

- **Languages**: Python, C, C++,JavaScript, Php, Mips, Java, Vhdl, R, Matlab, C#
- **Frameworks**: PyTorch, Tensor Flow, Keras, Numpy, Pandas, NLTK, Opencv, Seaborn, Matplotlib, FLASK, Asp, Spring boot, Laravel , JEE, Stm32, Freetos, Rpc, Sql, Power Bi, Excel, Grpc, CI/CD, Docker, kubernetes, Jenkins, Aws, terraform, Ansible, Maven, Git-Github , Giltlab, SSh
- **Soft Skills**: Leadership, Event Management, Writing, Public Speaking, Time Management ,Communication
- **Skills**: Computer Vision, Natural Language Processing, Deep Learning, Machine Learning, Time series forecasting, Reinforcement Learning, Embedded software, Software engineering, Devops

Certification

- **Fundamentals of Red Hat Enterprise Linux** Coursera/ Red Hat
- **AI For Everyone** Coursera/ DeepLearning.AI
- **Object-Oriented Data Structures in C++** Coursera/ University of Illinois at Urbana

Volunteer Experience

- **Member of ENSI Competitive Programming Club**