Hachem **SFAR**

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Edu**cation**

Passau University   *Passau, Germany*
MASTER IN COMPUTER SCIENCES   *October. 2018 - March 2021*

Data science Lab, Advanced Data Science, Deep Learning, Data Fusion,Text Mining Project

Higher School of Communication of Tunis (SUP'COM)   *Tunis, Tunisia*
DIPLOMAS COMPUTER SCIENCE ENGINEER   *Sep. 2015 - Sep. 2018*

Machine learning, Probability, Programming languages(Python,Java), Linux, UML

Preparatory Institute for Engineering Studies - El-Manar (IPEIEM)   *Tunis, Tunisia*
PREPARATORY CLASSES FOR ENGINEERING SCHOOLS (RANK:20/1200)   *Sep. 2013 - Jun. 2015*

Computer Science, Mathematics

Exp**erience**

Ecotrek   *Remote, Germany*
DATA SCIENTIST / DATA ENGINEER   *April. 2022 - Present*

keywords: Python, Machine Learning,Named entity recognition, Web scraping, NLP, Scrapy

Techlabs Aachen   *Remote, Germany*
MENTOR – DATA SCIENCE TRACK   *Nov. 2021 - April 2022*

Creating a highly accurate model that predicts the stage of Alzheimer's to help doctors in diagnosis based on MRI images. If MRI images are not available yet, give the doctor a first assessment of the dementia risk for the patient based on patient data.
keywords: Python, Project Management, Machine Learning, Classification, Streamlit

Passau University   *Passau, Germany*
MASTER THEIS - DIGITAL IMAGE PROCESSING DEPARTMENT   *Feb. 2021 - July.2021*

→Building Machine Learning models to detect corona based on XRAY images ,and solution deployment in a web application.
→Generating heatmaps to highlight the most important regions for the prediction
keywords: Python, Deep Learning, Transfer Learning, GRADCAM, ML Web App, Flask

E.ON   *Munich, Germany*
DATA ANALYST - WORKING STUDENT   *Oct. 2019 - Sept. 2021*

Contribution in many projects in various technologies: data analysis, unit testing, NLP, web/software development, web scraping.
keywords: Python,Tkinter, Pandas, Selenium, SQL, Sphinx, Azure, snowflake, Unit testing , Matplotlib, GIT

Passau University   *Passau, Germany*
RESEARCH ASSISTANT - DATA SCIENCE CHAIR   *Sep. 2019 - April 2020*

→Develop a system that detects Hate Speech in Twitter using various Machine Learning techniques.
→Deploy the solution on the web using Flask to make the model available to the end users.
→Submit paper for **SemEval-2020** workshop to describe the methodology.
keywords: Python, NLP, Deep Learning, BERT, CNN, Bidirectional GRU, ML Web App, Twitter API, Flask

Attila AI   *Tunis, Tunisia*
GRADUATION INTERNSHIP   *Jan. 2018 - May. 2018*

Development of an intelligent recommendation system that recommends products to meet the interests of each customer.
keywords: Python, sklearn, keras, Machine Learning Algorithms: {Logistic regression, Naive Bayes, DecisionTree, Random Forest, Neural network}

Ski**lls**

Domains: Machine Learning, Data Analysis, Data engineer, Cloud Computing, Web Development, Software Development
Coding: Python, Java, PySpark, Airflow, HTML, CSS, JavaScript, React JS, flask, Django, SQL, Airflow
Databases Management System: Snowflake, MongoDB
Tools: Power BI, Tableau, Git, Docker, Azure
Languages: Arab *mother Tongue*, English: Advanced *B2:755/990 TOEIC*, German: intermediate *B1*, French: intermediate *B2:TCF*

Trainings

IntilaQ Tunisia   *Tunis, Tunisia*

LEARNER - DATASCIENCE ACADEMY   *June. 2018 - August. 2018*

The goal of this program is to create a generation of data scientists ready to tackle and solve tomorrow's challenges.
Participants will learn the basics of data science and they will learn how to apply classroom examples using real data.

WoMa, Fabrique de quartier   *Paris, France*

TRAINING IN DIGITAL MANUFACTURING   *June. 2017 - June. 2017*

Projects

Data Engineering Projects   *Passau, Germany*

                                                                                    Nov. 2021 - Jan. 2022

→**Immoscout24 pipeline**:Python,Web Scraping,Data Visualization,Machine Learning,Airflow,MongoDB,Linear Regression,CSV File **Projects URL**
→**NYC Taxis Pipeline**: Python, Web Scraping, SQlite, Airflow **Projects URL**

Celebrity Profiling - PAN 2020   *Passau, Germany*

                                                                                    May. 2020 - Jul. 2020

→Building many Machine Learning and deep Learning models to predict the age, gender, and occupation of a celebrity based on the Twitter feed.
→Writing a scientific paper to describe the methodology.
Keywords: Python, NLP, Twitter, Data Preprocessing, Machine Learning (SVC, Logistic Regression) models Pre-trained Models (BERT)
Projects URL

Patent Classification   *Passau, Germany*

                                                                                    Dec 2019 - Feb 2020

The dataset of this task is an XML document, which contains an abstract description and category for each patent:
→Parsing the XML tags to get the description and the label, and building models to predict labels.
Keywords: Keywords: BERT, NLP, Text Preprocessing, XML
Projects URL

Udemy Course   *Passau, Germany*

                                                                                    May. 2019 - July. 2019

Publishing an online course about web scraping in Udemy website.
Course Name: Learn Web Scraping in Python with BeautifulSoup Library
Course URL

Java projects   *Passau, Germany*

                                                                                    Dec 2019 - Feb 2020

1/Currency Converter: Developing a currency converter application, that return in real time the currency value using the web scrapping.
Keywords: Java, JavaFX , JSoup
2/Resume Search Engine: Developing an application that help HR to find the skills sought in the Candidates Resumes.
Keywords: Java, JavaFX
Projects URL

Web Scrapping projects   *Tunis, Tunisia*

                                                                                    Aug. 2018 - Nov. 2018

Data extracting from websites by using different libraries:
1/Beautiful Soap Library:
→Extracting different information(English/Jap name, Ranking, Episodes Number...) for the top 14k anime in "myanimelist" website.
→Extracting people reviews and rating for each anime on the website.
→Generating a map that contains passport power by extracting data from the "passport index" website.
2/Scrapy Library: By having the manga chapter link as input, The script will download the different pages of the manga. Then, save it into pdf
Projects URL

Russia 2018 - International Prediction Challenge   *Tunis, Tunisia*

                                                                                    Jun. 2018 - Jun. 2018

A competition organized by university Paris-Dauphine | Tunis where dataset about the results of previous football games, and the goal is to predict of (win,lose,tie) of each game during the worldcup 2018
Keywords: Python, Web Scraping, Machine Learning,Ensemble Learning, Logistic regression **Project URL**

Con**tests**

Gastronomie Hackathon
Salzburg - Austria
Nov 2019

Developing a widget that can be integrated easily into any order food apps that enable the user to order food by using his voice.
Keywords: Python, Django, Named Entity Recognition, Google Cloud Speech-to-Text, Textrazor **Project URL**

Smart Health Hackathon
Prague - Czech Republic
Nov 2019

During this Hackathon, each team should work on one of the event challenges. We worked on Retina Blood Vessel Segmentation. We used U-Net architecture for this task, and we integrate the solution into a web application. **Keywords:** Python, UNET, Flask

Fiction2science Hackathon
Frakfurt - Germany
Sep 2019

Organized by Continental AG at the "IAA 2019 fair". Due to the high price of parking slots, our applications will enable travelers to rent a parking slot, and who own a parking slot near the airport. **Project URL**

Smart Green Island Makeathon
Gran Canaria - Spain
Feb 2019

This edition saw the participation of more than 250 participants from 70 universities and 21 countries.
Our product was a smartwatch dedicated to swimmers; that provides geolocation, arterial pressure, and heartbeat. And in case of danger, it sends an alert to his relatives' phones and the life jacket will inflate automatically to save/her him from drowning.

AI Hackathon
Tunis - Tunisia
Mar. 2018

Organized by "Facebook developer circle | Tunisia". Building a model that predicts the hourly taxi ride demand in New York City in June based on the demand during the last 5 months for every district (Ranking 5/43).

Entrepreneur Challenge
Tunis - Tunisia
Feb 2019

Our idea is an app that allows people to locate buses in real-time using crowdsourcing data collected from GPS of the passengers' phones. (Ranking 4/35)

Vol**unteer Experience**

Member in the organization team
Munich, Germany
EUROPEAN CHAMPIONSHIPS MUNICH 2022
June.2022-August 2022

Mentor - IA Hackathon
Remote, Tunisia
TEENS IN AI ORGANIZATION
March.2022

Working as a mentor for a group of teenagers (12-18 years old)

Animator
Passau, Germany
KINDERSCHUTZBUND PASSAU
August.2021

- organizing a workshop about the arab language for children as part of the summer school organized by Kinderschutzbund Passau.

Member - Sponsoring Team
Munich, Germany
TUN'UP MUNICH E.V.
May. 2021-Present

The association's goal is to promote access to education in Tunisia through entrepreneurial projects and fundraising events. Every group of people is responsible for some projects. →Organizing two online training of basic concepts of Python and LaTeX for German students.

Volunteer Staff - Vaccination Center
Tunis, Tunisia
MINISTRY OF PUBLIC HEALTH | TUNISIA
May.2021

Member
Tunis, Tunisia
YOUTH FOR SCIENCE FOUNDATION

→Organization of the 7th Scientific and Technological Fair, where more than 230 high school students presented their projects.
→Teaching more than 70 pupils about 3d printing/modeling, for two weeks in a summer school.

Organisor - Hour of Code
Beja, Tunisia
Feb. 2016

Organization of the "Hour of Code" event for young schoolchildren in the rural region of Goubellat (Governorate of Beja).
The aim is to help pupils by giving them introductory training on the basic concepts of computer programming. **Event Video**

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