

Hachem SFAR

MASTER STUDENT LOOKING FOR A STUDENT JOB OR INTERNSHIP IN GERMANY

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Summary

Student in computer science master at «university of Passau» and engineer recently graduated from the «Higher School of Communication in Tunis (SUP'COM)», accredited by the Commission of Engineers' Titles (CTI).

I am looking for a student job in Passau or in a close region, in the field of information and new technologies.

Dynamic, Rigorous and Autonomous.

Education

Universität Passau

MASTER IN COMPUTER SCIENCES

Passau, Germany

October. 2018 - PRESENT

Higher School of Communication of Tunis (SUP'COM)

COMPUTER SCIENCE ENGINEER

Tunis, Tunisia

Sep. 2015 - Sep. 2018

Preparatory Institute for Engineering Studies - El-Manar (IPEIEM)

PREPARATORY CLASSES FOR ENGINEERING SCHOOLS (RANK:20/1200)

Tunis, Tunisia

Sep. 2013 - Jun. 2015

Experience

IntilaQ Tunisia

LEARNER - DATASCIENCE ACADEMY

Tunis, Tunisia

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.

Program:

- Module 1: Prerequisites
- Module 2: Data Preparation
- Module 3: Web scrapping
- Module 4: Machine Learning
- Module 5: Deep Learning

Attila AI

GRADUATION INTERNSHIP

Tunis, Tunisia

Jan. 2018 - May. 2018

Development of an intelligent recommendation system that recommends products to meet the interests of each customer in the next months.

keywords: Machine Learning, Exploration Data Analysis, Logistic regression, Naive Bayes, DecisionTree, Random Forest, Neural network

WEVIOO

SUMMER INTERNSHIP

Tunis, Tunisia

Jun. 2017 - Aug. 2017

Solution development for the follow-up of the elderly which is useful (especially for those who suffer from Alzheimer's)

keywords: HTML, Javascript, Google map API, Node-red, Arduino/Raspberry pi, GPS shield, Temperature sensor, Arterial pressure sensor

WoMa, Fabrique de quartier

TRAINING

Paris, France

Jul. 2017 - Jul. 2018

Training in digital manufacturing:

- 3D design(Solidworks,autodesk fusion 360)
- 3D printing
- milling and laser cutting

Tunisie Telecom

TRAINING OF INTEGRATION IN PROFESSIONAL LIFE

Mahdia, Tunisia

July. 2016 - July. 2016

Discover the working environment within Tunisie Telecom and the different techniques of management of the Telecom network.

Projects

Web Scrapping projects

Tunis, Tunisia

Aug. 2018 - Oct. 2018

Data extracting from websites by using different techniques:

1/Beautiful Soup Library:

-Extracting different information (English name, Jap name, Ranking, Episodes Number...) about the top 14k animes by using "myanimelist.net/topanime.php" website and arrange them in one dataframe.
- Extracting Country name and passport power for all countries from "passportindex.org/byRank.php" website. Then, plot this data on map using Plotly library.

2/Scrapy Library:

- By putting the link any manga chapter on "mangareader.net". The script will download all images files of the manga. Then, fusionne them together in one pdf by using FPDF library.

Projects URL: <https://github.com/hachemsfar/Web-Scrapping-projects>

Russia 2018 - International Prediction Challenge

Tunis, Tunisia

Jun. 2018 - Jun. 2018

This project was developed within a competition organized by university Paris-Dauphine | Tunis.

In this competition, I resorted to the given file and added extra data from various sources, for example, I used score power from the FIFA website, and the latest results from the 2018 friendly games as I couldn't find enough data from the given CSV file I also used the power information for each team from the PES video game (def power, speed power, mid power, attack power...)

During the data preprocessing phase, I transferred the result of each game between the national teams: Column result:

- 1: If the Home Team won the game

- 0: If it's a tie

- 2: If the Away Team won the game

I created new features which consist of the ratio of power of each team's information.

Then, I trained my model and I used as input the ratio features and as output the result of the previous games (0, 1, 2)

Furthermore, I used the same model to predict the probability of win, draw and lose. I did the same process for each year (2015, 2016, 2017 and 2018)

In the end, I used all my submission to build the final submission file.

Final(sub) = 0.1*sub(2015)+0.15*sub(2016)+0.25*sub(2017)+0.5*sub(2018)

Web solution to locate hospitals as well as the most current way to go

Tunis, Tunisia

Jun. 2018 - Jun. 2018

Develop a web solution that offers the user to locate a hospital and identify its services as well as the most current way to go.

Technologies: HTML, Javascript, Google map api

SupAire Club Website Design

Tunis, Tunisia

Jun. 2018 - Jun. 2018

Technologies: HTML, CSS, Javascript, Bootstrap

skills

Domains

- Machine Learning, Web Development, Software Development

Coding

- Python, C/C++, Java, JavaScript, HTML, CSS

Databases Management System

- MySQL, MongoDB

Operating Systems

- Linux
- Windows

Languages

- Arab mother Tongue
- French B2:TCF
- English B2:755/990 TOEIC
- German Beginner

Contests

DeepHack - AI Hackathon

Tunis - Tunisia

Mar. 2018

The competition was organized on 11 March 2018 by "facebook developer circle | Tunisia" with the participation of more than forty contestants. We are required to build a model that predicts the hourly taxi ride demand in New York City based on Population Census Blocks on June by using the taxis demand in the previous months (from January 2015 to May 2015) for each bloc. By the end, I was ranked the 6th among the 45 participants.

Participation in the 10th edition of the challenge entrepreneur

Tunis - Tunisia

Mar. 2017

Our project called TT'app (Tunisian Transport Application) will allow public transport users to locate buses in real time using crowdsourcing data (collected by GPS from smartphones carried by bus passengers) .

To detect the veracity of its information, we will implement an algorithm which gives veracity scores for each signal (depending on its geospatial location, the time and place of sending the signal to check if it belongs to the cluster of the group, users of the same means of transport).

If the degree of similarity of the signal is greater than a threshold, the user will have a score bonus otherwise it will have a penalty in decreasing some of these points.

Afterwards, he can consume some of these points to locate the bus / metro that is waiting or to have it transferred as an internet bonus. Thanks to iBeacon technology, our product will be profitable. When a bus or subway passes the premises of one of our partners, this technique will detect the users of the application and will send them Push notifications containing the promotions and offers in the store. at the end, our team was ranked the 4th.

Certifications

Domains

- Nov.2018 Deep Learning : **Coursera**
- Dec.2017 Data Scientist with Python Track : **Datacamp**
- Dec.2017 French knowledge test (TCF) "B2 Level" : **french institute**
- Jun.2017 Test Of English for International Communication (TOEIC)"B2 Level" : **AMIDEAST**

Volunteer Experience

Organisor - Hour of Code

Beja, Tunisia

Feb. 2010

Within the framework of the PACTE Project (Projet d'Apprentissage de la Communication et du Travail en Equipe), Organization of the "Hour of Code" event for young schoolchildren in the region of Goubellat (Gouvernorat de Béja).

The aim is to help pupils by giving them an introductory training of the basic concepts of computer programming.

Animator - Science and Technology Camp

Monastir, Tunisia

YOUTH FOR SCIENCE FOUNDATION

Aug. 2016

The camp organized in Monastir from 31 July to 14 August 2016 by the association "Youth for Science", with talented young people from all over Tunisia. More than 80 young people, 20 volunteers, university professors and 24 animators responsible for 8 workshops participated.

I had the opportunity to be the workshop facilitator on the 3D printer by doing a training on Solidworks.

Member of the organizing committee- Science Fair

Tunis, Tunisia

YOUTH FOR SCIENCE FOUNDATION

Jan. 2017

This is the 7th Scientific and Technological Fair organized on 20 and 21 January 2017 by the association "Youth for Science", dedicated to young college and high school students.

This edition saw the participation of more than 240 participants and 50 coaches who will present their projects (120 projects in total) before a jury of university professors and researchers.

Member of the organizing committee - Tunisian Collegiate Programming Contest

Tunis, Tunisia

ACM, ASSOCIATION FOR COMPUTING MACHINERY

Mar. 2017

Photographer - Bike'Fest

Tunis, Tunisia

SUP'COM

Feb. 2017

«Bike'Fest» is an exceptional event held at SUP'COM under its second edition on 18 February 2018. It brings together the values of duathlon (running and cycling) in an attractive and unprecedented competition.

Attendant - 2ND International Symposium For Amateur Astronomy Students

Djerba, Tunisia

THE TUNISIAN ASTRONOMICAL SOCIETY (S.A.T)

Mar. 2018

The Symposium organized in Djerba from 17 to 21 March 2018 by the "Tunisian Astronomical Society".

This edition saw the participation of 12 speakers from 10 different countries who give lessons on different fields of astronomies.

References

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