



Amal Tlili
Data Science Engineer

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Computer skills

Statistics tool

Machine learning, Data Mining, Text Mining, Dashboard, Data warehouse, Econometrics, Business Intelligence, Time-series, Math(Statistics, Linear Algebra, Differential Calculas)

Data Analysis

Feature Engineering, Data Wrangling, EDA

Machine Learning

Classification, Regression, deep Learning, Reinforcement Learning, Clustering, Dimensionally reduction

Data Visualisation

Matplotlib , GG Plot , Seaborn, Tableau, Power BI, ...

Frameworks Deep learning

Tensorflow, Keras, Pytorch, ...

Programmation

Python, R, Java, C#, C++, Html/ CSS3 , PHP, SQL

Software

R - Python - Power Bi - Matlab - SAS - Talend - SPSS - CPro - Tableau -Excel

A Languages

English

French

WORK EXPERIENCE

2021/06

Data Scientist

[DNA Global Analytics](#) .

- Measure the velocity of specific human body parts to analyze movement speed and count repetitions
- Evaluate poses and movements and compare them to your individual target execution through pose estimation
- Gather important angles of the human body and define good or bad thresholds.
- Human Motion Analysis for Fitness.

Keywords: Tensorflow, TFLite, Android Studio, Mediapipe, CNN, ML, API, GIT

2021/06 - 2021/07

Python Tutor

[The City of Sciences](#)

2021/02 - 2021/05

Data Scientist

[Kam Company GmbH](#) .

- Innovate on state-of-the-art deep learning systems for speech recognition and speaker diarization
- Apply deep learning techniques to improve acoustic models and keyword spotting
- Perform robust data analysis and communicate results with sophisticated visualization methods
- Create and implement statistical & machine learning algorithms, assessing their effectiveness through solid validation workflows

Keywords: Tensorflow, PyTorch, Pandas, Signal Processing, LSTM-based models

2020/03 - 2021/01

Data Scientist

[Capitalya_groupe \(Webreflexe\) - Digital Marketing Agency](#) Tunis

- Streamlined the use of machine learning techniques by implementing Clustering, and Classification in Python for data analysis on the agency's databases and optimization of predictive targeting algorithms(Lead scoring, Segmentation ..)
- Handling, cleaning, and verification of data
- Evaluation of statistic models performance
- Customer behavior analysis (sentiment analysis using NLP techniques and text representation techniques (such as n-grams, a bag of words), statistics and classification algorithms)
- Definition of customer audiences to activate and schedule them
- Create and present quality dashboards on the performance of marketing campaigns (data analysis and modeling)
- Develop and maintain good relations and communicate with people at all hierarchical levels

Keywords: R, Python (Machine learning frameworks (Keras, PyTorch) and libraries (like scikit-learn)), MySQL, SAS, a platform of emailing routing

2019/08 - 2020/02

Trader

[BIAT - Arab International Bank of Tunisia](#) Tunis, Tunisia

- Market Maker on the Tunisian FOREX market
- Monitor transaction costs and negotiate with brokers and exchanges to reduce expenses
- FX Trading on the major international currency pairs.
- Implementation of hedging strategies to control the exposures to currency risk for clients.
- Provide macroeconomic analysis and technical analysis for customers.
- Currency swaps
- Customer segmentation using Data mining

2019/02 - 2019/05

Graduate Engineering Trainee

[ERM PARTNERS - Actuarial Risk Consulting and Management firm](#) Tunis

- Processing and Analysis of data on non-life insurance portfolio
- Statistical modeling (Generalised Linear Models (GLM), Zero Inflation Model, Validation Criteria, Goodness of fit tests)
- Comparison of traditional statistical models and machine learning techniques in order to provide the best model for IARD pricing (decision tree, random forest, neural network, etc.)



Interests

- Volunteering and community involvement
- Jogging
- camping
- cooking

WORK EXPERIENCE

- 2018/06 - 2018/08 **Trainee**
[Laboratory of BioInformatics bioMathematics & bioStatistics BIMS Institut Pasteur](#)
- Data processing pipeline
 - Web Scraping
 - Building a Shiny Web application using RShiny that classifies the resistance of the plants according to different factors

EDUCATION

- 2013/09 - 2016/06 **Preparatory Institute for Engineering Studies of El Manar (IPEIEM) El Manar**
- Mathematics
 - Physics
 - Chemistry
 - Mechanical subjects
 - Programming
- 2016/09 - 2019/06 **Higher School of Statistics and Data Analysis (ESSAIT) Tunis**
Main focus on a 3 axis curriculum :
- Theoretical and Applied Statistics
 - Computer Science
 - Economics and Finance

CERTIFICATIONS

- 2020/12 **Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning**
[an online non-credit course authorized by DeepLearning.AI and offered through Coursera](#)

VOLUNTARY EXPERIENCE

- 2021/05 **Co-Founder and Co-Organizer at**
[Tunis R User Group](#)
- Tunis R User Group is part of an international mentorship group with a focus on helping more people become active participants and leaders in the R open-source community. Our mission is to promote, educate and advance a diverse R community through outreach, education, conferences, events and social gatherings.
- 2021/02 **Co-Founder and Co-Organizer at**
[Pyladies Tunis](#)
- We are a group of Tunisian women developers who love the Python programming language. Our mission is to promote, educate and advance a diverse Python community through outreach, education, conferences, events, and social gatherings.
- 2020/09 - 2021/06 **Team Leader**
[Data Science Club TBS](#)
- External Relation
- 2020/10 - 2021/02 **Active membre**
[Data Overflow](#) Insat
- 2017/09 - 2018/09 **Coordinator**
[Statistics Revolution Club: ESSAI](#) Tunis