Ghada JOUINI
Data Science ENGINEER

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i ABOUT ME

I'm an AI-Machine Learning & Deep Learning Enthusiast! Getting into the field of data science was a real game changer for me. My objective is to turn Artificial Intelligence expertise into real-world value by collaborating with corporations and ambitious startups. At the end of the day, my satisfaction is proportional to the impact our team has on the market.

*Languages : English, French, Arabic

🎓 EDUCATION AND HONORS

2017-2020	Engineering degree in Computer Science, majoring in **Data Science**	**ESPRIT School of Engineering**
2014-2017	Preparatory Cycle Mathematics-Physics	**Faculty of Physical and Natural Mathematical Sciences of Tunis**

💼 PROFESSIONAL EXPERIENCE

November 2020
June 2020

AI research Internship, AMZI SMART SOLUTIONS, Tunis
Document Digitization and information extraction using OCR and deep learning :
- ❯ Extracted machine-readable code in passports using OpenCV pre-processing techniques and return the structured information.
- ❯ **Achieved a fully automated information flow for driving license cards :**
- ❯ Discovered a new scene text detection approach based on character level detection.
- ❯ End-to-End trainable Neural Network for image based sequence recognition using RCNN architecture.
- ❯ Researched a solution to generalize name entity recognition using **Graph Convolutional Networks**.
- ❯ Actively participated and contributed to the internal Data Science project initiatives.
- ❯ Solution Deployment using Flask REST API. `https://www.youtube.com/watch?v=PhXQFiVJ3wI&ab_channel=GhadaJouini`

`Data-Generation` `Data-Prepossessing` `ADAM-Optimizer` `Data-Augmentation` `Flask` `Tensorflow` `Transfer-Learning` `Rapids`

September 2019
July 2019

Data Science Internship, EUROPEAN INNOVATION ACADEMY | EIA , Remote
Collecting and categorizing data to design business models and to select profitable new markets for B2B companies :
- ❯ Define a data collection system for SMEs.
- ❯ Collecting data via API REST.

`Microsoft SQL Server` `MongoDB` `PowerBI` `SQL`

August 2019
July 2019

Data Science Internship, TELNET INNOVATION LABS, Tunis
Configuration and Development of a Machine Learning model based on Dictionary Learning algorithms for an E-Health fall detection application :
- ❯ Fall detection dataset pre-processing : pretreatment of pre-recorded signals, filtering, segmentation, and extraction of descriptors.
- ❯ Implementation of dictionary learning algorithms for fall detection sensors (DLSI, SRC, LC-KSVD1, LC-KSVD2, LRSDL).

`Python` `Matlab` `Dictionary Learning`

🖥 PROJECTS

October 2019
November 2019
	NLP Project, ANDEX PARIS, ESPRIT
	Analysis of textual data :
	  ❯ Read a formatted text document, extract the most useful and pertinent elements then label them.
	  ❯ create a semantic search engine from a text.
	`Kmeans` `Spacy` `Flask` `Data Annotation` `Named-entity recognition(NER)` `Data Transformation` `Optimisation`

May 2019 January 2019	**Data Science Internship, MITAKUS ANALYTICS GERMANY, Remote** Reduce food waste by implementing a Machine Learning algorithm to predict the daily number of guests for two canteens in Munich. `Python` `Machine Learning` `Feature Engineering`

☰ SKILLS

Programming Languages	Python, C, C++, Java
Deep Learning Frameworks	Tensorflow, Keras
Big Data & Machine Learning	Spark, Hadoop, **Python** (eg. scikit-learn, numpy, pandas, matplotlib)
DBMS	Oracle Database, Microsoft SQL Server, MySQL, MongoDB
Data Science & Miscellaneous Technologies	**Natural Language Processing** (LSTM, Transformers, Bert), **Data Science Pipeline** (cleansing, wrangling, visualization, modeling, interpretation), Git, AWS
Business Intelligence	**DataVis** (SSRS, PowerBi, Tableau), **ETL** (SSIS)

🎓 CERTIFICATIONS

2019	Fundamentals of Deep Learning for Computer Vision	NVIDIA Deep Learning Institute.

🖥 COMPETITIONS

Today	Full time kaggler competitor @ kaggle
September 2019	Participated in Machine Learning and Artificial Intelligence hackathon in TUNISIA co-organized by InstaDeep, the Tunisian Ministry of Industry and Google
April 2019	Infor HACKATHON Data Science challenge in hospitality, Rank 5	Kaggle
April 2019	CHACKATHON	Problem Solving HAKATHON

🖥 EXTRACURRICULAR ACTIVITY

February 2021 Today	**Founder of LinkMeUp, AI, Pre-Startup** ❯ LinkMeUp is a revolutionary platform based on Artificial Intelligence that enables decision-makers to follow on employees productivities, and business objectives achievements.