Maha OUALI

PERSONAL PROFILE

A curious engineering student with a strong background in mathematics and programming. I am looking for an opportunity as a Data Scientist.

CONTACT

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- https://github.com/Mahaspace

LANGUAGES

- Arabic : Native
- English : C2
- French : C2
- Spanish : A2

HARD SKILLS

- **PROGRAMMMING LANGUAGES**
  Python, R, SQL, C,C++, Matlab, Julia(CPLEX, Gurobi)
- **DATA ANALYSIS AND PROCESSING**
  Pandas, Numpy, Scikit-Learn, Keras, Tensorflow, PyTorch,
- **BAYESIAN OPTIMIZATION**
  Trieste, gpflow, Scipy
- **DATA VISUALISATION AND BIG DATA**
  matplotlib, seaborn, ggplot2, Grafana
- **DATA EXTRACTION**
  Teradata, Teradata Vantage, ETL Processes, SQL Queries, Pyspark
- **VERSION CONTROL**
  Git, Github, Gitlab, Bitbucket
- **CONTAINERIZATION:**
  Docker

INTERESTS

- Problem solving : IEEEXtreme programming competition,
- Technology : Tunisia Entreupreneurship Summit
- Physics
- Literature, art and cinema

EXRACURRICULAR ACTIVITIES

- Active member at IAESTE Tunisia : intern affairs reponsible and visa responsible
- Active member at IEEE student branch : Participated in different summits and various innovative projects

EDUCATION

MS Data Science
Institut Polytechnique de Paris, France   Since September 2022
Relevant Coursework : Machine Learning, Deep Learning, Reinforcement Learning, Computer vision, Natural Language Processing, Statistics, Data Visualization...

Engineering Degree in Applied Mathematics
ENSTA Paris ,   Since September 2020
Relevant Coursework : Optimization, Operational Research, Statistics, Probability, Scientific computing, Time series, Bayesian Filtering, Automatic control

Pre-Engineering Degree
IPEST, Tunisie,   September 2018 - july 2020
Relevant Coursework : Mathematics, Physics, Computer Science, Chemistry

High School Scientific Diploma in Mathematics With High Honors
Pioneer High school of Bizerte , Tunisie   September 2014 - june 2018
Succeeded the Baccalaureate exam with high honors. Average grade : 17,30

PROFESSIONAL EXPERIENCE

Data Science Intern, Air France KLM   April 2023 - October 2023
- Engineering fraud detection for Air France, collaborating with Revenue Integrity and Data Science teams.
- Leading data exploration, optimized pipelines with Teradata
- Appling advanced ML algorithms for detection, and delivering actionable to stakeholders for fraud prevention strategies.
  Skills : Python, SQL, Pyspark, Terdata, Terdata Vantage, Agile methodologies

Research intern , inria Sophia Antipolis June 2022 - August 2022
- Collaborated with SecondMind(https://www.secondmind.ai/), on a research internship focused on extending the efficient global optimization method to multifidelity optimization of costly functions.
- Developed innovative approaches for optimizing expensive functions with varying fidelity levels, enhancing efficiency and effectiveness.
  Skills : Python , Gpflow, Trieste, Scipy

Introductory internship : STAM Tunisie   July 2021 - August 2021
- Assisted in documenting meetings and site visits, gaining insights into the industrial world and understanding company operations.

ACADEMIC PROJECTS

Capstone Data Science Project with Capgemini   2023
- Contributed to the "foncier innovant" project by Capgemini, focused on detecting unauthorized residential constructions through skylight identification using computer vision AI models.
- Trained state-of-the-art models on annotated datasets to achieve accurate and reliable detection results.

X-DataScience Data camp   2023
- Learning all aspects of completing a data science pipeline from exploratory data analysis (EDA), feature engineering, parameter optimization to advanced learning algorithms.
- Participating in a competitive challenge using RAMP website. The goal is to detect Interplanetary Coronal Mass Ejections (ICMEs) in the data measured by in-situ spacecraft. Mixed log-loss/f1 score = 0.22
- Creating a ramp challenge for a large-scale multimodal product data classification using Rakuten Products dataset. (https://github.com/Mahaspace/Rakuten-France-Multimodal-Product-Data-Classification)

Distributed Kernel Ridge Regression project   2023
- Implemented distributed computation methods for Kernel Ridge Regression, including decentralized gradient descent, gradient tracking, dual decomposition, and ADMM.
- Explored convergence, graph structure impact, and scalability of the algorithms. Documented results and findings.

CERTIFICATES

Machine Learning   Stanford University, Coursera   October 2022

Deep Learning with PyTorch : Siamese Network   Coursera Project Network   October 2022

Mastering data analysis with Pandas   Coursera   October 2022

Neural Network and deep learning   DeepLearning.AI, Coursera   April 2022

Fundamentals of quantitative modeling   Universiity of Pennsylvania, Coursera   March 2022