Ali FRADI
Industrial engineer

in linkedin.com/in/ali-fradi/   @ alifradi7@gmail.com   https://alifradi7.netlify.app/ +1438-493-3907

💼 JOB EXPERIENCE

September 2021 - ongoing

R&D Data Scientist, Polytechnique de Montréal - MECART, Montréal, Canada

> - Development of a project scheduling model under uncertainties and constraints of 4.0 industry.
> - Developed a linear program minimizing delays and completion times.
> - The model includes preemptive tasks of multi-projects, overlapping tasks, and limitation of number of preemptions per task.
> - implementation of model on cplex and testing of different formulations to interpret relaxation and objective functions impact on the model behavior.

February 2020 April 2021

R&D Data Scientist, axe finance, Tunis, Tunisia

> - Built models to summarize financial sentiment, extract topics, define topic-document DNA and detect named entities in in textual data.
> - Developed a document recommendation engine to search for pertinent news articles about an industry.
> - Contributed to static scorecard modeling for retail clients of UIB-Société Générale bank.
> - Developed versions of a framework that automates data processing and major calculations to build a scorecard model. The framework considers exporting models as PMML format.
> - Initiation of adopting CRISP-DM process to manage credit scoring projects.
> - Functionized all modules into Plumber APIs that were consumed into a shiny dashboard.

September 2019 April 2019

Graduation internship : Data Analyst, Monsanto Bayer, Peyrehorade, FRANCE

> - Adopted CRISP-DM approach designed for industries to achieve the project.
> - Development of dashboards : automate calculations and reporting, boost generation of EMEA reports.
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> - Modeling : prediction of sterility class of corn plants (hypothesis and data driven approach) to optimize the costs of detasseling plants and preserve the quality of the product.
> - Evaluation and Deployment : acceptable model with an accuracy of 86% .

🎓 EDUCATION

2021-	**Master degree in industrial engineering**, Ecole Polytechnique de Montréal
2016-2019	**Industrial Engineering**, National School of Engineers in Tunis (ENIT) : Banking Finance and Machine Learning specialization.
2013-2016	**University of El Manar (IPEIEM)**, Technology preparatory competitive exam for the entry to schools of engineers. Rank:25/1400.

☰ LANGUAGES

> - French : TCF C1
> - English : TOEIC 810
> - German : notions

☰ COMMUNITY LIFE

> - IAESTE : Former junior member
> - Industrial Engineering Club : Former training manager
> - L2M : Former Lean Management trainer

</> SKILLS AND MAIN KNOWLEDGE

IT tools	R, Python , Matlab , VBA, Java, Linux, Docker
Databases	Oracle Database, MySQL, PowerAMC, Access
Modeling	ARENA, AnyLogic
Industrial optimization	Operation research, stochastic optimization, multi-agent simulation , Reinforcement Learning, Machine Learning