Karim Assaad

PhD student - Engineer - Data Scientist

kassaad.github.io

Education

11/2017–present **Ph.D in Machine Learning: Discovery of Causal Relations in Sequences**, *LIG - Université Grenoble Alpes*, Grenoble, France, *www.liglab.fr*.

09/2016–09/2017 **Master 2 in Information Processing and Data Exploitation (with honors)**, *University of Paris-Saclay*, Paris, France, *www.universite-paris-saclay.fr*.

09/2014–09/2017 **Degree in Software Engineering**, *École Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise*, Evry, France, *www.ensiie.fr*.

09/2011–06/2014 **Bachelor in Applied Mathematics**, *Université Saint Joseph*, Beirut, Lebanon, *www.usj.edu.lb*.

Publications

2019 K. Assaad, E. Devijver, E. Gaussier, A. Aït-Bachir. Scaling Causal Inference in Additive Noise Models. In Proceedings of 2019 ACM SIGKDD Workshop on Causal Discovery, Proceedings of Machine Learning Research, Anchorage, USA, 5 Aug 2019. PMLR.

Teaching

2019 Department of Computer Science, University of Grenoble Alpes: first year of master degree Algorithms for data processing

2019 Grenoble-INP: Algorithmic in Python

Activities

2018 Participate in the JES summer school where the main theme was about statistics and causality

2018 Participate and coordinate a reading group about causality in the LIG

2018 Participate in ECIR 2018 - 40th European Conference on Information Retrieval

2017 Machine Learning Librairy which include Linear Reg, Logistic Reg, kNN, K-Means, Formes Fortes and MLP |Python

2017 Project which consists on estimating missing data of the Formaldehyde by using decision trees and Neural Networks methods (MLP and Self Organized maps) |Python

2016 Recognitions of signatures by using a mixtures of Gaussians |Matlab

2016 Participate in a Kaggle competition that consists on predicting Titanic survivors by using classification techniques (Random Forest - SVM - Gradient Boosting) |R

2015 Project that consists on using advanced regression techniques and feature engineering in order to predict house prices |R

2014 Project that transforms a grayscale images into realistic colored images |Matlab

2013 Program that calculates eigenvalues(QR) |C

Experiences

11/2017–present **Data Scientist**
Coservit, Grenoble, France, *www.coservit.fr*
Finding causal relations in monitoring data |Python, Tensorflow

04/2017–10/2017 **Statistical Analyst (Internship)**
Crédit Agricole, Paris, France, *www.ca.com*
Natural language processing and web scraping in order to collect data and developing a semi-supervised model to optimize production and risk |Python, Spark

03/2017–04/2017 **Data Scientist (Research Internship)**
Locean, Paris, France, *www.locean-ipsl.upmc.fr*
Prediction of chlorophyll concentration using sattelite image time series using Deep Learning methods(CNN and LSTM) and find the best validation methods |Python

06/2016–09/2016 **Data Miner (Internship)**
Weborama, Paris, France, *www.weborama.com*
Optimizing digital advertising activities by modeling and segmentation |Python, R

Certificates

2018 **Neural Networks and Deep Learning**
Deeplearning.ai on Coursera

2017 **Machine Learning**
Stanford University on Coursera

2017 **Dev 361 - Build and Monitor Apache Spark**
MapR Academy

2017 **Dev 360 - Apache Spark Essentials**
MapR Academy

Computer Skills

Data Processing: Python, Tensorflow, Spark, R, MatLab, Scala

Database: Mysql, Postgresql, Hive

Web: PHP, Html5/CSS, Javascript, JQuery, XML

Functional: Ocaml, Lisp

Imper/Obj: C, C++, Java

Languages

English (Fluent), French (Fluent), Arabic (Fluent)

Personal interests

Skiing, Classical Guitar and Classical Music