Personal Info

Phone +14703820513

Mail
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**Professional
Networks**
LinkedIn

Skills

Mathematics
10+ years of experience
★★★★★

Probabilities and Statistic
3+ years of experience
★★★★★

Machine Learning
2+ years of experience
Scikit-Learn
★★★★★

Deep Learning
1+ years of experience
Pytorch, Tensorflow, Keras
★★★★★

Programming
8+ years of experience
Python, R & Matlab
★★★★★

SQL
1+ years of experience
★★★★★

Data Analysis
2+ years of experience
Pandas, Numpy & SciPy
★★★★★

Data Visualization
+2 years of experience
Tableau, Seaborn, MatPlotLib
★★★★★

Algorithms Design
9+ years of experience
★★★★★

Cloud Platforms
AWS, Microsoft Azure, IBM
Watson
★★★★☆

Languages

Spanish ★★★★★
English ★★★★☆
French ★★☆☆☆

Claudia Perez
Data Scientist

Data Scientist with a Ph.D. in Computer Science and Mathematics and hands-on experience in complex problem-solving, Machine Learning and Statistics. Passionate about learning new technologies with strong autodidact skills, a team-oriented personality and a great lover of Mathematics.

Experience

2020   **Data Science Consultant**

- Perfom EDA on DICOM and NIFTI representations of 2D and 3D medical imaging data with Python-based packages (pydicom, nibabel).
- Train common CNN architectures to classify 2D medical images of Chest X-rays with better performance than the silver standard approach (using three radiologists).
- Develop projects using machine learning, artificial intelligence and statistics with accuracy over 90%.
- Apply U-net algorithm to train an automatic segmentation model of a real-world CT dataset using PyTorch.

2015 - 2019   **PhD Fellow**   Autonomous University of the State of Morelos

- Classification of complex structures leading to graph representations.
- Tackling a classical algebraic problem as a graph problem, allowing to reduce the complexity of a well-know algorithm from $O(6^n)$ to $O(n^3)$.
- Experience designing and developing algorithms for a wide range of problems, mostly in Python.

2011 - 2014   **Associate Research Analyst**   Havana University

- Development of algorithms to find a function (S-Box) with specific statistical and algebraic properties.
- Design and development of an AES-like Block Cipher with dynamical MDS matrices.
- Design and development of a Random Generator of MDS matrices.

Education

2020-2020	**AI for Healthcare Nanodegree**	Udacity
2020-2020	**Data Analyst Nanodegree**	Udacity
2019-2020	**Data Science Professional Certificate**	IBM
2015 - 2019	**PhD in Computer Science**	Autonomous University of the State of Morelos, Mexico.
2012 - 2014	**Master in Science.**	Havana University, Cuba.
2007 - 2011	**Bachelor in Mathematics**	Havana University, Cuba.

* A complete list of my most recent publications in international journals with peer review can be consulted in my ORCID page

* A list of my most recent projects can be consulted in my GitHub Portfolio