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Claudia Perez

Data Analyst

I'm a Data Analyst 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 and a great lover of Mathematics.

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 ★★★★★

Experience

2019 - 2020 Associate Research

[Autonomous University of the State of Morelos](#)

- Perform 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 based on statistical and algebraic criteria to find function (S-Box) with desired 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 - 2018 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](#)