Personal Info

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**Professional
Networks**
LinkedIn
ResearchGate

Programming

Python ★★★★★
Matlab ★★★★☆
R ★★★☆☆
C++ ★★★★☆

Skills

Mathematics
★★★★★

Algorithms Design
★★★★★

Machine Learning
★★★★★

Pandas
★★★★★

Scikit-learn
★★★★★

Numpy
★★★★★

SQL
★★★★☆

**Data Visualization
Seaborn, MatPlotLib**
★★★★★

Data Cleaning
★★★★★

Languages

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

Claudia Perez
Data Analyst

I'm a Data Analyst with strong autodidact skills and highly hands-on experience in complex problem-solving, Machine Learning and Statistics. Passionate about learning new technologies and a great lover of Mathematics and challenges. I have a Ph.D. Degree in Computer Science and Mathematics.

Experience

2015 - 2021   **PhD Researcher**   Autonomous University of the State of Morelos

- Classification of complex structures leading to graph representations.
- Develop projects using machine learning, artificial intelligence and statistics in Python (Pandas, Scikit-learn, Numpy, Keras) with accuracy over 90%.
- Creating output to explain data analysis with data visualization (MatPlotLib, Seaborn).
- 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. **Recent projects**: Pneumonia Detection (CNN), Opening an Italian Restaurant in Atlanta (K-Means, Foursquare API), Predicting Cardano (Ada) Stock Price (LSTM Neural Network), Segmenting and Clustering Neighborhoods in Toronto.

2011 - 2014   **Graduate Student Researcher**   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 Sicence Professional Certificate**	IBM
2015 - 2018	**PhD in Computer Science**	Autonomous University of the State of Morelos, Mexico.
2016	**Python Specialization: Python for Everybody**	University of Michigan. Coursera.
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