Yasel Garces
Data Scientist

Personal Info

Location
Atlanta, Georgia, US.

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+14702193225

Mail
88yasel@gmail.com

Networks
LinkedIn
Github

Skills

Mathematics
10+ years of experience
★★★★★

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

Machine Learning
8+ years of experience
Scikit-Learn, Caret
★★★★★

Deep Learning
1+ years of experience
PyTorch, Keras
★★★★☆

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

SQL
4+ years of experience
★★★★★

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

Data Visualization
8+ years of experience
Seaborn, MatPlotLib & ggplot2
★★★★★

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

Computer Vision
7+ years of experience
★★★★★

Cloud Platforms
AWS
★★★★☆

Languages

Spanish ★★★★★
English ★★★★☆

Experience

2020 -	**Data Scientist**	Equifax / Three Bridge Solutions

- Capability to give accurate and fast solutions to diverse problems with different groups.
- Flexibility to react quickly to changing problems conditions.
- Proactive, quality-oriented, adaptable, and problem-solving in manage and lead multiple teams/projects simultaneously.

2015 - 2020 Data Science and Machine Learning Consultant — Institute of Biotechnology, Mexico

- Designed and implemented a new super-resolution microscopy algorithm using Convolutional Neural Networks and Stochastic Processes.
- Proposed and validated the first model that explains the interactions between biological elements through super-resolution microscopy and machine learning with accuracy over 98%.
- Coordinated and supervised cut edge projects in a multidisciplinary environment with teams with more than 10 members.

2011 - 2014 Machine Learning and Computer Vision Research — Institute of Cybernetics, Mathematics and Physics

- Developed a new metric distance based on advanced abstract algebra (ring theory) and information theory to measure in real-time the distance between images with accuracy up to 95%.
- Designed prototypes to test assumptions, features selection, and identification of the computer vision algorithms capabilities through machine learning and statistical analysis.
- Decreased the computational complexity of several computer vision problems through top-down approaches (making models) or bottom-up approaches (inferences from data).

Education

2020	**Deep Learning Nanodegree**	Udacity, United States of America.
2016 - 2017	**Data Science Specialization**	Johns Hopkins University, United States of America.
2015 - 2017	**Ph.D. in Mathematics and Computer Science**	Autonomous University of Morelos, Mexico.
2012 - 2014	**Master in Applied Mathematics**	Havana University, Cuba.
2007 - 2011	**Bachelor in Mathematics**	Havana University, Cuba.

Projects

April - 2020 The Impact of Weather in the Coronavirus Spread — Codes

- Data collection, exploratory, descriptive and statistical analysis, visualization and results communications.
- Evaluated the impact of the temperature, humidity, and pressure on the spread of the coronavirus.

2017 - 2019 Nanoscale Organization of Rotavirus Replication Machineries — (Publication, Codes)

- Data collection and curation, Software, Formal analysis, Supervision, Validation, Research, Visualization, and Methodology.
- Proposed a new microscopy, computer vision and statistical analysis to study rotaviruses, providing a new framework based on a machine learning algorithm to understand many aspects of rotaviral biology.

* **Publications in international journals with peer review could be consulted in my ORCID page**
* **Some of my projects can be consulted in my Github repository**