



M.S in Computer Science

Instituto Politécnico Nacional, IPN

2020, Ciudad de México

B. in Genomic Sciences

Universidad Nacional Autónoma de México, UNAM



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Python Programming

scikit-learn, PyTorch

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R Programming

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Data Wrangling & EDA

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EMANUEL BECERRA SOTO

Data Scientist





Data Scientist

2017-2015 Genetics Institute at University of Florida

I worked on a big data project about Salmonella enterica. Some critical genes were found that could be used against Salmonellosis outbreaks. The results could be seen here (link).

- R Programming
- Python & BASH scripting
- Statistical Hypothesis Testing
- Top 500 supercomputer (hipergator) jobs of 100 RAM and ~5 days duration
- Analysis of ~1 TB of raw data
- Data Wrangling & EDA Command-Line & Python
- Visualization

* M.L. Instructor

2020-2019 **IPN Computer Research Center**

"Unsupervised I gave the lecture for the weekly course Learning" "Machine Learning for the Industry" at the IPN Computer Research Center, during its editions of 2019 and 2020.

- Team Work
- Unsupervised Learning Clustering and Dimensionality Reduction
- Communication
- scikit-learn

Python Developer

2021-2018 IPN Computer Research Center

I designed and implemented a framework for Reinforcement Learning, this concluded with the creation of a Python library, which can be seen here (link). The library is actively used.

- Python Library Implementation
- Machine Learning
- Deep Learning
- PvTorch
- Problem Abstraction and Modeling
- Scientific computing with Python numpy, matplotlip, SciPy
- API Design
- Software Engineering VCS, TDD, Kanban

About

The world of data is full of wonders, of them, my favorite ones are Data Epiphanies.

A Data Epiphany is when an unintuitive result appears, outshining other noisy clues, a moment of total clarity. However, there is a price attached to them, a struggle with the data, a tenacious exploration, and clever modeling.

Nonetheless, the difficulties are worth it, actionable insight is priceless.