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Data Scientist

M.S in Computer Science
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Python Programming
★ ★ ★ ★ ★

numpy, pandas, matplotli
★ ★ ★ ★ ★

scikit-learn, PyTorch
★ ★ ★ ★

R Programming
★ ★ ★ ★ ★

Data Wrangling & EDA
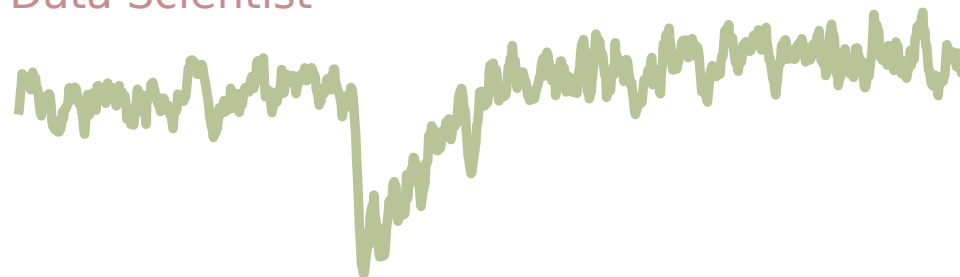★ ★ ★ ★ ★

Pipelines & Scripting
★ ★ ★ ★

Machine Learning
★ ★ ★ ★ ★

Statistical Modeling
★ ★ ★ ★

🚀 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

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

- ✦ 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

- ✦ Python Library Implementation
- ✦ Machine Learning
- ✦ Deep Learning
  PyTorch
- ✦ 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.