

Herman F. Autore

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Data Scientist

Results-driven Leader with Expertise in Machine Learning, Data Science, and Programming

Bilingual (Spanish/English) senior data scientist offering expertise in large-scale and highly structured data set analyses, data pipeline management, and high-level project management. Proven track-record of analyzing, modeling, and managing large datasets aligned to organizational objectives with a focus on data-driven operational improvements, data visualization, and machine learning solutions. Deep technical expertise combined with an understanding of the importance of effective translation and statistical interpretation of big data analyses to derive strategic insights, data quality monitoring, and stakeholder management.

Technical Skills

Programming Skills: Python, Regex, Git, HTML, web-scraping, SQL, Bash, Object-oriented programming, Matlab, R.

Statistical Experience: Exploratory data analysis, machine learning, natural language processing, stochastic modeling, Categorical Data analysis.

NLP Experience: LSTM models, LLM, Eleuther, RNN, sentiment analysis, entity recognition

Package Experience (Python): Pandas, selenium, matplotlib, sci-kit learn, Jupyter Notebook, sqlalchemy, numpy, seaborn.

Software: MS SQL Management Studio, SAP Business Objects, MS Office.

Professional Experience

Clinical & Translational Science Institute, University of Florida **2022 - Present**

Data Scientist & Data Manager

- Used SQL to query patient data numbering 100 million rows or more.
- Used BASH/Linux/Unix scripting to manage terabyte-sized data sets on Linux servers.
- Oversaw a portfolio of 25+ data science initiatives for a clinical transitional research organization with a team of 12 employees, ensuring 100% of projects were completed on-time.
- Created custom reporting, data visualizations to be utilized by senior stakeholders to make decisions that complete the proposal applications for grants valued at > \$100K.
- Automated SQL database ETLs with Pandas and custom SQLAlchemy chunking methods, eliminating server-side memory constraints and achieving instant completion (compared to a 1-2 hour process time).
- Developed a automated pipeline for extracting medical data to enhance kidney patient outcomes to provide real-time risk assessments to patients, resulting in a prototype build, and a successful launch to production.

Florida State University

2020 - 2022

Graduate Assistant, Data Scientist- Machine Learning

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- Used BASH/Linux/Unix scripting to orchestrate jobs on high-performance computing systems.
- Designed a Natural Language Processing prototype for nutrition facts search in a subscriber-based commercial product, submitting SBIR grant proposal and awaiting patent approval.
- Built systems and tools for scraping and conversion utilizing Python (Pytesseract, Selenium), securing massive data sets from 40+ unique websites.
- Proposed innovative projects, notably an SBIR/STTR pitch to the NSF, unlocking an opportunity for a comprehensive grant proposal to support a small business innovation.

Teaching Assistant , Business Statistics

2018 - 2020

- Served as a lecturer for multiple sections of introductory-level statistics classes, designing curriculum and leading instruction for 100s of students..
- Wrote Python scripts for grading, analyzed data from feedback technology (iClicker), and graphed distribution of grades (pain points), which correlated with increased attendance.

Florida State University Full-time Graduate Student

2015 - 2018

Miami-Dade County Co-Technical Director & Chemist

2011 - 2015

- Directed a series of phosphate, nitrate, and nitrite experiments pertaining to waste water and well water monitoring in a laboratory catering to 1M customers.
- Led a comprehensive set of Standard Operating Procedure (SOP) enhancements efforts, and implemented procedural improvements that resulted in the elimination of safety incident.

Core Competencies

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|------------------------|-------------------------------|----------------------------|
| • Data Science | • Machine Learning | • Data Visualization |
| • Technical Leadership | • Programming Languages | • Efficiency Improvements |
| • Data & Analytics | • Cross-functional Leadership | • Mathematical Modeling |
| • Project Management | • Operational Processes | • Data Pipeline Management |

Education and Languages

Master of Science - Statistics, Florida State University

Bachelor of Arts - Chemistry, Florida International University

Languages: English (Fluent), Spanish (Fluent)