Martin Manrique

Data Scientist

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[Linkedin](#) | [Github](#)

Hermosillo, Sonora, Mexico

PROFESSIONAL PROFILE

Data Scientist with over 4 years of experience in process automation and data analysis. Expert in Python, and machine learning tools like Pandas, Numpy, and Scikit-learn. Developed and implemented solutions that improved operational efficiency by 30% in previous roles. Currently expanding skills in Java and Rust to diversify problem-solving capabilities and work on multidisciplinary projects. Seeking a challenging role in computational science to continue professional growth in a dynamic and innovative environment.

SKILLS

- **Programming Languages:** Python, Fortran, C++, LaTeX
- **Web Technologies:** RESTful APIs, Flask
- **Database Systems:** PostgreSQL
- **Data Science & Machine Learning:** Pandas, Numpy, Scikit-learn, Keras
- **DevOps & Version Control:** Git
- **Specialized Area:** Job automation, Algorithm analysis
- **Mathematics & Statistical Tools:** Advanced mathematics, Matlib, Tableau
- **Other Tools & Technologies:** EndNote, Overleaf
- **Developer/Researcher Skills:** Critical analysis, Analytical thinking, Mastery of the scientific method, Data analysis, Experimental design, Scientific writing, Intellectual curiosity

EXPERIENCE

- **Avas Flowers**   *2018-2019*
  Python Process Automation Specialist   Hermosillo, Mexico
  - Developed scripts to automate data capture.
  - Implemented Python to speed up data capture by up to 50 times.
  - Analyzed SEO-related data for further usage by the SEO department.
  - Achievements: Increased efficiency by 500% with analysis scripts and improved understanding of SEO techniques.

- **Alterna Phoenix**   *2020-2022*
  Data Handler   Hermosillo, Mexico
  - Automated information capture and structuring of medical documents.
  - Implemented Python for the automation of medical records creation.
  - Developed strategies to improve speed and quality in invoice creation.
  - Achievements: Reduced workload by up to 80%, increased workflow speed by 150%, and improved the collection system.

- **Transportes Adriana**   *2019-2020*
  Data Automation Specialist   Hermosillo, Mexico
  - Automated data capture processes.
  - Implemented technology solutions to improve workflow.
  - Managed and implemented PostgreSQL databases.
  - Achievements: Improved company scalability and increased efficiency by 100%.

PROJECTS

- **Radiation Detection: Researched the use of commercial transistors as gamma detectors.**
  Tools: Electrical circuits, Python, Oscilloscope.
  - Developed an electronic circuit for the operation.
  - Successfully implemented a specific transistor for detection.
  - Applied mathematical methods to the obtained data for proper analysis.

- **Brownian Simulation: Research on Brownian colloidal systems with Monte Carlo**
  Tools: Python, Fortran90, C++, Analysis
  - Simulated colloidal systems.
  - Implemented the Monte Carlo method.
  - Compared the data with real-world observations for accurate system interpretation.

- **Customer Churn Analysis for Interconnect**
  Tools: Python, Pandas, Scikit-learn, XGBoost, Keras, Matplotlib
  - Conducted exploratory data analysis (EDA) to understand customer behaviors and service usage patterns.
  - Engineered features and prepared datasets for predictive modeling to forecast customer churn rates.
  - Developed multiple machine learning models (e.g., Logistic Regression, Random Forest, XGBoost) and evaluated their performance using AUC-ROC and accuracy metrics.
  - Achievements: Identified key factors influencing churn and increased prediction accuracy through model optimization.

EDUCATION

- **University of Sonora**   *2019*
  Physics   Hermosillo, Mexico

- **Specialty**
  Courses
  - Computational Physics I, II, III
  - C++

- **Tripleten**
  Data Science   2023-2024

CERTIFICATIONS

- **Linkedin Learning**   *2023*
- **Various:** Python, unit testing, automation,   *2023*
- **Data Handling:** SQL   *2022*

ADDITIONAL INFORMATION

Languages: English (Advanced), Spanish (native)
Interests: Science, Technology, Learning.