

Hector J. Herrera

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DATA ANALYST | DATA ENGINEER | BUSINESS ANALYST

SUMMARY

Data professional with over 5 years of experience specializing in data engineering and analytics. Skilled in designing and implementing ETL pipelines, optimizing data processes, and delivering actionable insights through advanced analytics. Proven ability to improve data accuracy, reduce processing times, and drive cost-saving strategies. **Expertise in Python, SQL, Power BI,** and cloud platforms like **Azure**. Experienced in handling large-scale datasets, enhancing data quality, and automating workflows to support business-critical decisions. Recognized for delivering innovative solutions that increase operational efficiency and support cross-functional collaboration.

SKILLS

- Programming Languages: **Python, SQL, C# (basic)**.
- Data Visualization & Reporting: **Power BI** (DAX, Power Query), **Tableau** (VizQL), **MS Excel** (Advanced: Pivot Tables, Macros, VBA), **Alteryx**.
- Data Analysis & Machine Learning: Exploratory Data Analysis (EDA), Statistical Modeling (Linear & Logistic Regression, Decision Trees, SVM, K-Means), Data Cleaning & Transformation.
- Libraries & Frameworks: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, SciPy, PySpark.
- Cloud Platforms: Azure (Data Factory, Synapse, Databricks), AWS (Foundational knowledge).
- ERP Systems: SAP (MM, SD modules), Oracle ERP.
- Version Control & Collaboration: Git (GitHub, Bitbucket), CI/CD practices.
- Project Management: Agile & Scrum methodologies (JIRA, Confluence).
- Languages: **English (fluent), Spanish (fluent), Portuguese (intermediate)**.

PROFESSIONAL EXPERIENCE

Data Engineer

Johnson & Johnson (via Réalta Technologies), Ireland | July 23 – Present

- Reduced inventory costs by 25% in the Asia-Pacific region by identifying excess stock and implementing a batch expiration-based prioritization strategy.
- **Accelerated dashboard performance by 30% for EMEA by migrating R scripts to PySpark within Databricks**, enhancing processing efficiency.
- Improved data accuracy and reliability by optimizing end-to-end data pipelines, supporting critical manufacturing and inventory analytics.
- Enhanced team capabilities by delivering monthly **Power BI training to groups of 15–20**, increasing reporting efficiency and data literacy.

Data Analytics Engineer

Outer Rim, Ireland | Oct 22 – Jun 23

- Optimized data integration by building and refining Python-based ETL pipelines, **reducing query processing time by 8%** and improving data accessibility across systems.
- **Increased data reliability by 7% through the implementation of robust data validation techniques** within ETL workflows, ensuring high-quality data transformation.
- Uncovered actionable customer insights from diverse sources (web analytics, social media, CRM systems), leading to improved customer engagement strategies and better decision-making.
- Enhanced stakeholder decision-making by delivering clear, data-driven reports and interactive visualizations using Power BI and Tableau.

Data Analyst

Nature Sweet, Remote | Mar 22 – Oct 22

- **Improved master data accuracy by 80% by** developing and maintaining Power BI dashboards to monitor data quality and track anomalies.
- Enhanced data governance by defining and maintaining MDM Standard Operating Procedures (SOPs), ensuring consistent data management across systems.
- Optimized system performance by collaborating with IT teams to assess MDM application changes, resolve issues, and plan for enhancements and system upgrades.
- Ensured data integrity by performing User Acceptance Testing (UAT) for MDM systems, validating data flows, and supporting ad-hoc master data requests.

Data Analyst-Procurement

Mercado Libre, Argentina | Dec 19 – Dec 21

- Optimized procurement strategies by leading data analysis projects, using Python (Pandas, NumPy, Matplotlib) to clean, transform, and analyze large procurement datasets.
- **Increased cost savings in 15 % by implementing statistical analysis algorithms** to identify supplier performance trends and uncover cost-reduction opportunities.
- Enhanced decision-making through interactive Power BI dashboards, delivering comprehensive insights on procurement performance to key stakeholders.
- Improved supply chain efficiency by applying data mining and predictive modeling techniques to forecast demand and optimize inventory levels.

IT Procurement Lead

The AES Corporation, Argentina | Aug 18 – Dec 19

- Optimized supplier selection and contract negotiation, **identifying cost-saving opportunities through procurement data analysis, leading to \$1.2 M in annual savings.**
- Improved operational efficiency by analyzing purchasing trends and vendor performance, creating a centralized procurement strategy that **reduced process redundancy by 25%.**
- Enhanced technology purchasing decisions by using data insights to evaluate and recommend cost-effective IT equipment, aligning purchases with regional budgets.
- Led a team of four procurement professionals, overseeing IT purchasing operations and streamlining workflows, improving procurement cycle times.

Procurement Executive

Petronas, Argentina | Dec 15 – Jun 18

- Led the Indirect and Direct Procurement Department across three countries, managing \$2 million in annual purchasing volume and ensuring alignment with regional business objectives.
- Optimized procurement processes for a large-scale energy plant project, sourcing and negotiating contracts for electric and steam generators, as well as piping and engineering services, achieving 8% cost savings while maintaining quality and delivery standards.
- Established the Procurement Department from the ground up, developing standardized purchase protocols that replaced fragmented processes across Finance, Operations, and other departments.
- **Earned a promotion to Procurement Executive in recognition of exceptional organizational skills** and a proven track record of improving procurement efficiency and cost management.

IT Regional Sourcing Buyer

IBM, Argentina | Jan 12 – Dec 15

- **Developed and executed strategic sourcing plans for software-related categories** across **7 countries**, improving **procurement efficiency** and ensuring **on-time project delivery.**
- **Analyzed procurement data** to track performance against departmental goals, enabling **data-driven decision-making** and identifying **20% cost-saving opportunities.**
- **Sourced and coordinated resources** (software, hardware, and personnel) for **regional projects**, ensuring timely delivery and alignment with **agile methodologies.**
- **Awarded "Best IBMer of the Quarter" (Q4 2013)** for **outstanding professionalism, commitment to quality,** and **excellence in contract negotiation,** contributing to **30% improvement** in supplier terms.

EDUCATION

- EducationIT | Unity Game Developer | Remote | Aug 2024
Five months of duration and more than 100 hours of training. C# and Unity.
- Soy Henry Bootcamp | Data Scientist | Remote | Jan 2023
Full time data science boot-camp. Five months of duration and more than 800 hours of training.
- National Technological University | Industrial Engineering | Argentina | Dec 2021

OTHER

- **Certifications:** Python for Everybody Specialization (Universidad de Michigan and Coursera), Negotiation Skills (IBM).
- **Awards:** Named "IBMer of the Q 2013 (by CEO IBM AR) and "Competing as a team to win (by CEO Mercado Libre).