ISAAC CECILIO SILVA GUTIERREZ

Monterrey, MX.
✉ isak.silva81@gmail.com | 📱 (+52) 984 316 3727
🌐 LinkedIn | GitHub

SUMMARY

Results-oriented Data Analyst with expertise in Python, SQL, and JavaScript, recently self-instructed on .NET web apps. Proven ability to design, deploy, and interpret data-driven projects with a focus on machine learning, data visualization, and process optimization. Fluent in English, Spanish, and intermediate in Italian, with international work and academic experience. Adept at leveraging data insights to support business goals and improve operational efficiencies.

TECHNICAL SKILLS

- **Languages & Tools:** .NET (C#, CSHTML), Python (Pandas, NumPy, Flask, Scikit-learn, TensorFlow), SQL (PostgreSQL, MySQL, SQLAlchemy, MongoDB, NoSQL), JavaScript (D3.js, Leaflet.js), HTML, CSS, VBA, Tableau, Excel, AWS (S3, EC2), Flask, Shiny.
- **Platforms:** GitHub, Jupyter Notebook, Google Colab, Tableau Public, Salesforce, SAP.
- **Competencies:** Data Cleaning, Predictive Modeling, Data Visualization, ETL Pipelines, KPI Analysis, Statistical Analysis.

PROJECTS

IsaacForms Web-app:
- Custom form builder app using ASP.NET Core, Blazor, PostgreSQL, and Clerk; supports drag-drop UI, reusable templates, response analytics, and live deployment for survey/data collection use (link).

User Management Web-app:
- This is a web application built using ASP.NET Core and SQL Server for managing users. It includes features like user registration, authentication, and an admin panel for managing users.

BookStoreTester:
- A .NET web application for managing bookstore inventory.

Adult Income Classification:
- Built a predictive model to classify income levels using XGBoost and Neural Networks.
- Achieved 83% accuracy with optimized hyperparameters and data preprocessing techniques.

Home Sales Analysis:
- Processed large datasets with Apache Spark to optimize query efficiency.
- Created visualizations to inform real estate trends and pricing strategies.

Spotify Challenge:
- Developed a web app integrating data visualization with HTML, CSS, and JavaScript.

Leaflet Challenge:
- Created an interactive geospatial visualization using JavaScript and Leaflet.js to analyze geographic trends.

CityBike Tableau Dashboard:
- Designed a Tableau dashboard analyzing bike-sharing data, highlighting patterns in usage and station efficiency.

Belly Button Biodiversity:
- Built a dynamic dashboard showcasing bacterial biodiversity using JavaScript, HTML, and CSS.

EDUCATION

B.S. Industrial Engineering with Minor in Systems Engineering
Tecnológico de Monterrey | Aug 2011 – Dec 2016
Graduated with honors (92/100); Excellence Performance Award (CENEVAL). International exchange at Reykjavik University (2014).

Data Analytics Bootcamp – edX and Tecnológico de Monterrey
June 2024 – Nov 2024 | Grade: 99.6% (A+)
Completed a 24-week intensive program focused on core data analytics, skills acquired:
- **Data *Wrangling* and Preprocessing:** Cleaning and organizing complex datasets for analysis.
- **Python Programming:** Expertise in libraries like Pandas, NumPy, Matplotlib, and Scikit-learn.
- **SQL Mastery:** Writing and optimizing queries for relational databases, enhanced through solving +85 MySQL challenges on LeetCode.
- **Data Visualization:** Creating interactive dashboards and visualizations using Tableau, JavaScript (D3.js, Leaflet), and Matplotlib.
- **Machine Learning:** Implementing supervised and unsupervised learning models for predictive analytics.
- **ETL (Extract, Transform and Load) Processes:** Building end-to-end data pipelines for efficient data extraction, transformation, and loading.
- **Version Control:** Utilizing Git and GitHub for collaborative projects.

PROFESSIONAL EXPERIENCE

CO-FOUNDER, (ENTREPRENEURSHIP)   2019 – Present
Orehouse   Monterrey, NL.
Key Accomplishments:
- Founded a microbusiness for small mammal services, growing its social media following to 19K+ and establishing a steady online sales presence.

Sales Engineer, Spare Parts   Oct 2019 - Nov 2020
Nutec Bickley   Monterrey, NL.
Key Accomplishments:
- Maintained spare parts sales rates during the pandemic, ensuring consistent revenue streams.
- Delivered 30+ client quotations daily, with a 95% success rate in client follow-ups.
- Optimized inventory management, improving tracking and availability for untracked spare parts.

SQE Specialist, LATAM   Jan 2017 - Feb 2019
FEMSA Coca-Cola   Santa Fe, CDMX
Key Accomplishments:
- Oversaw compliance and operational requirements for two new production plants in Guatemala, ensuring readiness for launch.
- Guided managerial and operations staff in Panama to increase line productivity, optimize resources, and implement management reporting templates.

Distribution Planner   Jan 2016 - Dec 2016
FEMSA Coca-Cola   San José, CR.
Key Accomplishments:
- Utilized algorithms to optimize supply chain operations for Nicaragua and Panama, achieving a 99.7% distribution accuracy rate.

LANGUAGES & INTERNATIONAL EXPERIENCE

- Fluent in Spanish (native) and English; intermediate in Italian; beginner in Portuguese.
- International exposure in Iceland and South-East Asia through exchange and internships.