

EDGAR PAUL RAMIREZ SANCHEZ

Data Specialist | BI- AI- DATA| [PORTFOLIO]

EDUCATION

Universidad de La salle Bajío

Master's in Data Analytics & Business Intelligence

Universidad de La salle Bajío

B.Sc. in Biomedical Engineering

CERTIFICATIONS & COURSES

- Data Scientist -TripleTen
- Machine Learning and A.I. Fundamentals
- Data Visualization with Tableau Specialization
- Business Intelligence Data Analyst
- Analyze Data with SQL
- Diferential Calculus for Data Science and I.A.
- Inferential Statistics Course for AI Intelligence
- Introducción a SQL Server: Manejo de Datos y Consultas Básicas
- Master en Java de Cero a experto 2024 (Udemy)

LANGUAGES

English – Fluent

Spanish – Native

Japanese – Basic

INTERPERSONAL SKILLS

- Adaptability
- Effective Communication
- Critical Thinking
- Data Analysis

CAREER OVERVIEW

Data specialist with **5+ years of experience** delivering real solutions through analysis, visualization, and predictive modeling.

**Focused on turning data into decisions** that improve performance, reduce waste, and support growth.

Skilled in big data environments, process automation, and business intelligence tools. with a great **sense of UX/UI**

TECHNICAL SKILLS

Programming Languages	D.C. / M.L.	Data Engineering	BI & Visualization	Infra & Deploy
Python	Pandas	Spark	PowerBi	Docker
SQL	Numpy	Apache	Power Aut	Kubernetes
R	Scikit-Learn	SQL	Tableau	Git
JS	TensorFlow	pipelines	Scikit-Learn	Azure
C/C++	LangChain	Airflow	Azure AI	AWS
			Google Ana	CLI

PROFESSIONAL EXPERIENCE

Data Analytics Lead

February 7, 2024 – Present

Universidad La Salle Bajío

Responsibilities:

- Dashboard Design:** dynamic dashboards in Power BI to centralize academic and enrollment KPIs, enabling decision-making across institutional departments.
- Predictive Modeling:** Built predictive models to forecast student enrollment trends, identify irregular retention patterns, and support growth strategies with data-driven KPIs.
- Reporting Pipelines:** Automated reporting workflows to extract, clean, and distribute academic performance data using Power BI and batch scripts (bat-py), reducing manual overhead and improving visibility.
- Key Performance Indicators (KPIs):** Designed new KPIs to evaluate student satisfaction, stability, and institutional belonging, leveraging historical trends to proactively detect risk of dropout or disengagement.

**Technologies Used:** Power BI (DAX, Power Query), Python (Pandas, Scikit-learn), Jupyter/Colab, TensorFlow, Apache Spark, Docker (env. isolation), LangFlow (LLM pipeline design)

AI Training Specialist

July 2024 – Present

Outlier AI

Responsabilidades:

- AI Model Evaluation & Optimization:** Ensured high accuracy and reliability in AI-generated responses.
- Continuous Process Improvement:** Worked on optimizing algorithmic models for better adaptability across different contexts.

## PROFESSIONAL EXPERIENCE

**Database Specialist**  
*Grupo Castores S.A. de C.V.*

July 10, 2023 – February 5, 2024

### Responsibilities:

- **Operational Data Management:** Handled and analyzed high-volume transactional data related to fleet operations and logistics, ensuring accuracy and system availability for daily transport coordination.
- **Performance & Maintenance Reporting:** Developed Power BI dashboards to identify patterns in unit maintenance frequency, fuel consumption, and operational efficiency across service stations.
- **Stored Procedure Automation:** Created SQL Server stored procedures to automate key reporting queries, improving delivery times and reducing manual effort in performance tracking.
- **Tool Integration:** Used SQLYog, SQL Server, and Beaver to monitor fleet metrics and vehicle behavior, while leveraging Microsoft Reporting Services for scheduled reporting.
- **Device Control & Security:** Deployed AirDroid to restrict misuse of corporate mobile devices and strengthen operational compliance.
- **Technologies Used:** FortiView, Asana, SQLyog, SQLQuery, Beaver, Power BI, Microsoft Reporting Services, AirDroid.

---

**Data Analyst**  
*Inbioidroid / Novaera*

January 2021 – March 2023

### Responsibilities:

- **Pattern Recognition & Sensor Fusion:** Designed and implemented pattern detection models using multivariate signals from a 6-point pressure sensing platform, enabling real-time operator intent detection.
- **Sensor Calibration & Embedded Control:** Programmed and fine-tuned ESP32-based inputs from infrared and tactile sensors, applying signal smoothing and preliminary PID-inspired adjustments to stabilize input readings and reduce noise.
- **Embedded System Integration:** Supported signal acquisition, calibration, and preprocessing for infrared and tactile sensors (ESP32 & Arduino-based), enhancing spatial awareness and surface interpretation in haptic robotics.
- **Actuator Development:** Built and tested haptic feedback actuators, including vibration motors and temperature simulators (hot/cold airflow), dynamically triggered by interpreted surface conditions from infrared arrays.
- **On-the-ground Problem Solving:** Managed hardware procurement and field troubleshooting in the U.S. and worked directly with international teams to resolve development and integration challenges.

**Tech-Stack:** Python (Pandas, NumPy), SQL (PostgreSQL), ESP32, Arduino, Jupyter, Docker, GitHub, Streamlit, Grafana



## PROJECTS

### Modular AI Assistant

Designed and developed a modular assistant powered by GPT and LangChain for managing tasks, capturing ideas, and streamlining daily decision-making.

Features include intent recognition, Telegram integration, database logging, and real-time prompt workflows.

Built with a microservice architecture using Python, SQLite, Docker, and Telegram Bot API.

### Denue – Business Data Explorer

I developed an interactive tool to explore and visualize data from the National Statistical Directory of Economic Units (DENUE, INEGI).

It enables business segmentation by sector, size, and location to identify commercial opportunities and map local business dynamics.

The focus is on simplicity and practical use: from quick searches to interactive “SimCity-style” maps that show where different types of businesses are concentrated.

[View More](#)

**Perfection is not Real,  
adjustment are**