Gabriel Santiago Murillo Barragan

📞 +57 314 379 26 87 — ✉ santiagomurillob@gmail.com

💼 linkedin.com/in/gabriel-santiago-murillo01 — 🐙 github.com/GabrielSMurillo

Bilingual Biomedical Engineer specializing in Data Science, bridging a unique background in medicine with expertise in Python, SQL, and Machine Learning. Proven ability to translate complex biomedical challenges into data-driven models and AI-powered health technologies. Eager to apply computational skills to a research or data science role focused on solving critical problems in the healthcare sector.

Education

Universidad de los Andes — **January 2017 - October 2022**
Bachelor of Science in Biomedical Engineering — *Bogotá D.C., Colombia*

Servicio Nacional de Aprendizaje (SENA) — **January 2015 - November 2016**
Technical Undergraduate with a Specialization in Commerce and Finance — *Yopal, Casanare*

Universidad Nacional de Colombia — **July 2022 - July 2025**
Foundational medical training aimed at bridging clinical knowledge with data science and biomedical engineering. — *Bogotá D.C., Colombia*

Certifications & Professional Development

- **IBM Data Science Professional Certificate**, *IBM*
- **Neural Networks and Deep Learning**, *DeepLearning.AI*
- **Introduction to Clinical Data Science**, *University of Colorado System*
- **Python for Everybody Specialization**, *University of Michigan*
- **IBM Data Analyst Professional Certificate**, *IBM*
- **Project Management Principles and Practices Specialization**, *UC Irvine*

Skills

Programming Languages: Python, R, SQL, MATLAB
Data Science & Machine Learning:
Frameworks & Libraries: Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, SciPy
Areas of Expertise: Regression, Classification, Clustering, NLP Basics (spaCy, NLTK)
Data Visualization & BI: Matplotlib, Seaborn, Power BI, Tableau, Advanced Excel
Cloud, Databases & Tools: AWS (S3, SageMaker), Docker, Git/GitHub, SQL Databases
Languages: Spanish (Native), English (C1 Certified)

Experience

Fundación de Educación Superior Nueva América (FESNA) — **September 2024 – March 2025**
Associate Professor in Statistics and Data Analysis Tools — *Bogotá D.C., Colombia*
- Designed and instructed comprehensive curricula for virtual courses in **Python** and advanced **MS Excel**, focusing on practical business intelligence and data analysis applications.
- Developed engaging learning modules, including hands-on projects and interactive activities, to translate complex data concepts into accessible skills for diverse learners.
- Cultivated an interactive, results-oriented learning environment across synchronous and asynchronous platforms, mentoring students to achieve course objectives through practical application and continuous feedback.

Teleperformance — **January 2023 – September 2023**
Bilingual Supervisor — *Bogotá D.C., Colombia*
- Analyzed and visualized team KPIs using **Tableau** and **MS Excel** to identify performance trends and inform data-driven action plans.
- Mentored and coached a bilingual team of customer service representatives, developing targeted training programs and feedback mechanisms to systematically improve performance against client metrics.
- Collaborated with Quality Assurance and Workforce Management to align team strategies with client objectives, ensuring consistent service quality and achievement of KPIs.

Teleperformance — **June 2022 – December 2022**
Bilingual Customer Service Representative — *Bogotá D.C., Colombia*
- Delivered high-quality customer support for a multinational banking client, resolving complex inquiries and ensuring clear communication in a bilingual (English/Spanish) environment.

Accounting Technician — **September 2015 – October 2016**
Topografía Pozos Profundos Aguas Subterráneas LTDA — *Yopal, Casanare*
- Managed the full-cycle accounting process, ensuring the accuracy, integrity, and compliance of all financial records and transactions.
- Prepared and analyzed key financial statements (income, balance sheets) to support strategic business decisions.

Academic & Research Projects

EEG/fMRI Signal Classification with Python   **December 2021**
- Applied signal processing and machine learning algorithms using **Scikit-learn** and **NumPy** to classify neural patterns in complex EEG and fMRI datasets.
- Developed computational models to analyze neural responses, contributing to neuroinformatics research applications and demonstrating skills in handling time-series data.

Automated Anomaly Detection in Medical Imaging   **June 2020**
- Implemented computer vision techniques with **OpenCV** and **Scikit-image** to automate the segmentation and feature extraction from MRI and X-ray images.
- Designed a data processing pipeline to support the identification of potential diagnostic markers, emphasizing data integrity and workflow automation.

Epidemiological Modeling of Dengue Transmission   **June 2022**
- Developed a computational model in **Python** to simulate the epidemiological dynamics of Dengue, applying mathematical algorithms to forecast disease spread.
- Analyzed the potential impact of various public health interventions, showcasing skills in systems modeling and predictive analysis.