Edison**Florez**

Data Scientist — Business Analyst — Computational Physicist

edisonffh@gmail.com • **github.com/e-florez** • **linkedin.com/in/edisonflorez**

Profile: 8+ years of experience specializing in statistical analysis, predictive modeling, data processing and mining algorithms across industries like biotech and finance. My passion lies in extracting insights from data through critical thinking and an understanding of underlying concepts. My background spans biotech startups and the financial industry.

Proven track record of collaborating with cross-functional teams developing, testing, and deploying scalable data pipelines to translate complex business requirements into actionable data-driven solutions.

Interests:

Technical Skills:

- Python
- C/C++
- Fortran
- SQL
- MongoDB
- Git
- Docker
- AWS
- PowerBI
- Excel
- Linux
- Bash

General Skills:

- Storytelling
- Leadership
- Project Management
- Data Visualization
- Agile Methodologies
- Data Preparation
- Data Base structure
- Coach/Mentor

Professional **Experience**

■ **Sales Executive**   **Sep.2023 - Currently**
Cordis [cordishotels.com], New Zealand

- Managed a portfolio of key corporate accounts, fostering strong relationships through regular communication, site inspections, and on-site hosting.

- Leveraged business intelligence to drive data-driven decision-making. Queried Delphi CRM, Oracle PMS and GDS databases to extract valuable insights on booking trends, customer behavior and market segments.

- Built automated ETL pipelines using Python to streamline data processing and analysis. Developed interactive dashboards to visualize key sales metrics and performance indicators, enabling real-time monitoring and identification of growth opportunities.

Achievement: Surpassed monthly sales goals, contributing to an 8% increase in corporate segment revenue. Implemented a data-driven sales approach, leveraging insights to identify high-potential leads building automated ETL pipelines, reducing manual data processing time by 35% and

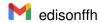ensuring timely delivery of accurate sales reports to key stakeholders.

■ **Data Scientist**   **Aug.2021 - Aug 2023**
HelicoBio [helico.bio], New Zealand

- Contributed to all phases of the software development lifecycle, development, testing, and deployment of new functionalities using Python and C++.

- Collect and prepare data, extract insights, and create easy-to-understand visuals.

- Create and validate scalable data pipelines to advance plant biology research,

- Collaborate with cross-functional groups to design new functionalities and ensure their seamless deployment.

Achievement: This advancement reduced wet-lab workflows by 20%, significantly enhancing our understanding of protein function in the context of designing new proteins.

■ **Freelancer Editor**
Apr.2023 - Present   Enago [enago.com]
Apr.2018 - Dec.2018   MDPI [mdpi.com]

- Provide Copy Editing services, refining coherence, grammar and scientific terminology.

edisonffh   e-florez   edisonflorez   edisonffh   Auckland, NZ

- Offer Substantive Editing, improving manuscript structure, clarifying ambiguous text, and verifying citation relevance.
- Guide authors in adhering to journal styles, and monitoring writing and editing activities to ensure content clarity.

  Achievement: This strategy enhances desk acceptance rates by over 30% in high-impact journals.

- **Lab Assistant and Demonstrator**
  Aug.2018 - Mar.2020
  Massey University [massey.ac.nz], New Zealand

- Provide instruction and guidance to students in workshops, focusing on intricate subjects such as advanced mechanics, thermodynamics, electricity, magnetism, and circuit analysis.
- Design the Standard Operating Procedures (SOP) for the Physics Lab, automating experiments and utilizing tools like Jupyter, Pandas, and Matplotlib for data analysis and report presentation.

  Achievement: Improving students' comprehension of technical physical concepts and principles using interactive visuals and automating report generations using Python.

- **Data Scientist**   **Aug.2016 - Mar.2018**
  EY [ey.com], Colombia.

- Design tailored solutions through thorough business and technical analyses, primarily within SAP for Analytical Banking and Business Intelligence.
- Develop complex models to address economic challenges and implement them to provide customized solutions.
- Implemented mathematical models to tackle financial inquiries, offering detail-oriented and pragmatic resolutions.
- Create a Python module to read, clean, and encrypt financial information for generating test cases to train new users of a bank's bonds portfolio.

  Achievement: This Python module halved the time required for designing and implementing new training sessions.

Open-Source Contributions

- **PTMC:**   [github.com/e-florez/PTMC] An advanced Fortran code that uses the Parallel Tempering Monte Carlo (PTMC) method for an accurate and efficient prediction and analysis of phase transitions in atomic and molecular clusters. **Role:** Data Scientist and Lead Developer.

- **AMCESS:** [github.com/e-florez/amcess] Atomic and Molecular Cluster Energy Surface Sampler (AMCESS) is an open-source Python package that automates the exploration of the Potential Energy Surface (PES) for atomic and molecular clusters. **Role:** Lead Data Scientist and Architect.

Academic Background

- → **Ph.D. in Computational Physics,** Massey University, New Zealand **Jul.2023**
- → **M.Sc. in Computational Chemistry,** University of Antioquia, Colombia **Dec.2014**
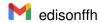- → **B.Sc. in Chemistry,** University of Antioquia, Colombia **Jul.2012**
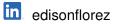
References

Available upon request
—

Yours sincerely,

Edison Florez, Ph.D.
edisonffh@gmail.com

M edisonffh   e-florez   in edisonflorez   edisonffh   Auckland, NZ