

EdisonFlorez

Data Scientist — Business Analyst — Researcher

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Profile: 8+ years of experience specializing in statistical analysis, predictive modeling, data processing and mining algorithms. 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,

creating, developing, testing, and deploying scalable and adaptive data pipelines to translate business into deliverables.

Interests:



Technical Skills:

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

General Skills:

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

Professional Experience

■ 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.

- Offer Substantive Editing, improving manuscript structure, clarifying ambiguous text, and verifying citation relevance.
- Guide authors in adhering to journal styles, 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.



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Auckland, NZ

■ Data Scientist

Aug.2016 - Mar.2018

EY [[ey.com](https://www.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.

■ Graduate Teaching Assistant

Sept.2015 - Aug.2016

University of Antioquia [udea.edu.co], Colombia.

- Guide advanced college students through the intricate domain of Quantum Mechanics.
- Ensure that students achieve proficiency in the language of quantum mechanics, comprehend relevant methods, and grasp key concepts.
- Develop a new module, "Computational Quantum Mechanics with Python", which was implemented within the Quantum Chemistry subject.

Achievement: This module was incorporated into the Quantum Chemistry curriculum, thereby enriching students' comprehension of the language of quantum mechanics and its tangible applications in the realm of computational chemistry.

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,

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