Bruno Rodriguez M.
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Master's in Astrophysics graduate with a deep interest in data science and business intelligence. Over five years of experience in the processing, analysis and statistical modeling of complex data. Strong skills in data cleaning, query optimization, and creation of visualizations. Effective communicator, able to translate technical findings into clear narratives for technical and non-technical audiences to optimize the development of data-driven solutions.

WORKING EXPERIENCE

RFM Tecnología y transporte S.A.C., position: *Data analyst* (Lima, September 2024 - present)

- Data extraction and manipulation with SQL through the APIs of strategic partners, creating and maintaining robust databases of trips and earnings.
- Development of analytical performance reports using Power BI, with a focus on weekly and monthly key performance indicators (KPIs).
- Analysis of transactions to guide decision-making and planning of new business plans.

Universität Bonn, position: *Researcher and tutor* (Bonn, October 2023 - September 2024)

- Design and coding of Python scripts for the efficient processing of large volumes of data, which resulted in a 50% reduction in the time required for analysis.
- Writing and updating of code documentation in order to improve the lab team's workflow and facilitate the replicability of experiments.

European Southern Observatory, position: *Researcher* (Garching, May 2021 - October 2021)

- Integration and cleaning of three large databases from the LOFAR observatory, increasing the sample size of quiescent galaxies by a factor of 10 with respect to previous studies.
- Statistical modeling of data from radio observations, which led to the discovery of anomalies that suggest the influence of active galactic nuclei in the observed properties.

Academia Sinica Institute of Astronomy and Astrophysics, position: *Researcher* (Taipei, July 2018 - August 2018)

- Preprocessing and modeling of astronomical data from stars in the post-AGB phase and application of advanced techniques for emission pattern recognition, whose conclusions were presented at an international astronomical conference.

EDUCATION

M.Sc. Astrophysics, University of Bonn: (Bonn, Germany)
B.Sc. Physics, Pontifical Catholic University of Peru (Lima, Peru)

PROJECTS

Hydrostatic pressure as predictor of star formation:

- Creation of a relational database with observed properties from nearby galaxies.
- Statistical modeling of the data, which confirmed a strong correlation between hydrostatic pressure and star formation rate.
- Implementation of a regression model to find the most important features for the prediction of star formation rates.

Creation of a classification scheme with SQL:

- Use of views, CTEs, window functions, and CASE clauses in MS SQL Server to implement a classification scheme to assign categories to workers based on their monthly performance.

TECHNICAL SKILLS

Python programming (Numpy, SciPy) - Data analysis (Pandas, SQL) - Machine Learning (scikit-learn) - Deep Learning (PyTorch) - Data visualization (Seaborn, Power BI) - Version control (Git, GitHub) - Use of AI agents - ETL processes - Cloud computing (Databricks) - Microsoft Office (Word, Excel, Power Point)

SOFT SKILLS

Critical thinking and creativity - Leadership - Teamwork - Event planning and moderation - Conflict resolution

SPOKEN LANGUAGES

Spanish: native speaker - **English**: proficient - **German**: intermediate - **French**: basic