Johnathan Goncalves Faria

Data Analyst

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Location: Dublin, Ireland

Summary

Results-driven Data Analyst with hands-on experience in Python, SQL, and Tableau. Skilled in data manipulation, visualization, and process optimization, with a track record of reducing costs, improving efficiency, and delivering actionable insights. Proficient in EDA, machine learning, and Bayesian analysis for data-driven decision-making.

Skills

- Programming & Data Analysis: Python, SQL, R
- Machine Learning: Supervised Learning, Unsupervised Learning, Feature Engineering, Model Evaluation
- Data Visualization: Tableau, PowerBI, Matplotlib, Seaborn
- Statistical Analysis: Regression Analysis, Hypothesis Testing, Bayesian Statistics
- Dimensionality Reduction: Principal Component Analysis (PCA)
- Soft Skills: Problem Solving, Cross-Functional Collaboration, Stakeholder Communication, Teamwork

Professional Experience

Data Analyst   **May 2024 – February 2025**

Upwork, Dublin, Ireland

- Optimized supply chain data operations by implementing process improvements and data standardization, reducing operational costs by $50,000/year.
- Improved stakeholder financial outcomes by performing data manipulation and querying large datasets using SQL, resulting in a $15,000/year salary increase.
- Facilitated data-driven decision-making by designing and optimizing complex Tableau dashboards, acquiring 51 new clients within 8 weeks.

Data Analyst   **February 2022 – September 2022**

I.L. Digital Marketing, Brazil

- Increased company ROI by 12% within 6 months by continuously optimizing Tableau dashboards and reports to align with business needs.
- Enabled strategic decision-making by leveraging data visualization and manipulation techniques, leading to a 23% year-over-year increase in local school enrollment.
- Reduced post-launch issues by 40% within 12 weeks by improving data flow and accuracy through SQL-driven data manipulation.

Data Analyst (Apprenticeship)   **August 2021 – November 2021**

Campo Belo City Hall – Water Treatment Department, Brazil

- Analyzed chemical and biological data to optimize water treatment processes, improving water quality by 25% and reducing chemical waste by 15%.
- Automated data analysis and reporting using Python, reducing reporting time by 40% and enabling faster decision-making.
- Developed real-time data dashboards to monitor water quality metrics, increasing operational efficiency by 20%.

Education

Higher Diploma in Data Analytics (Level 8 NFQ) Ongoing

City Colleges, Dublin, Ireland

- Building proficiency in Python programming for data analysis, including data manipulation, cleaning, and visualization using libraries like Pandas, NumPy, and Matplotlib.
- Developing practical skills in machine learning, focusing on supervised and unsupervised algorithms, such as linear regression, clustering, and neural networks.
- Gaining hands-on experience in statistical analysis and hypothesis testing to make data-driven decisions and interpret analytical outcomes accurately.

Postgraduate Diploma in Bayesian Statistics September 2022

Federal University of Sao Carlos, Brazil

- Improved predictive accuracy by 37% by developing Bayesian statistical models using Python and Matlab for data-driven forecasting.
- Increased data monitoring efficiency by 49% by automating Bayesian estimation processes using advanced statistical programming techniques.
- Increased data processing speed by 33% by optimizing statistical algorithms, enabling quicker insights for data-driven decision-making.

Bachelor of Science in Engineering December 2021

Federal University of Lavras, Brazil

- Increased biochemical process efficiency by 20% per experiment by leading a cross-functional data engineering project and conducting over 500 biochemical simulations using advanced data modelling techniques.
- Boosted production of key outcomes by 37% per batch by refining Python data models to better align with business process requirements, enhancing laboratory data operations.
- Reduced analysis-related waste by $5,000 per year by developing actionable Tableau dashboards and presenting data-driven insights to stakeholders, improving decision-making efficiency.

Certifications

Advanced Google Data Analytics Certificate **February 2025**

Professional Google Data Analytics Specialization **May 2024**

Projects

Churn Analysis and EDA with Python March 2025

- Explored and cleaned churn dataset using Pandas and NumPy, addressing missing values and transforming variables for deeper analysis.
- Applied Principal Component Analysis (PCA) with Scikit-learn to reduce dimensionality, and visualized variable distributions through Matplotlib and Seaborn, creating boxplots to identify and remove outliers.
- Conducted a correlation analysis and generated heatmaps with Seaborn to understand variable relationships, providing actionable insights to predict customer churn.

NBA Champions' DNA Analysis February 2024

- Used EDA to investigate whether NBA championship teams (2019-2023) consistently have at least three players outperforming opponents, inspired by an e-sports principle.
- Collected, manipulated and cleaned playoff data using Python and SQL. Calculated player performance per minute, and visualized results using Python libraries (pandas, NumPy, matplotlib, seaborn).

- Analysed player effectiveness through boxplots, identifying statistical outliers and team patterns. Findings suggested that outperforming players often align with successful teams

Bioprocess Efficiency with Python and Bayesian State Estimator   **September 2022**

- Utilized Bayesian statistics applied on Python to analyse and optimize the extractive alcoholic fermentation process, reducing the need for expensive sensors.
- Employed data analysis tools to monitor bioprocess dynamics, integrating noise, disturbances, and uncertainties to assess estimator performance using metrics like Average Time per Iteration (ATI) and Average Error Quadratic (AEQ).
- Improved bioprocess monitoring and control by applying advanced data analysis techniques, leading to optimized ethanol production outcomes through effective state estimation.

Technical Proficiencies

- Programming Languages: Python, R, SQL, Matlab
- Data Analysis & Visualization Tools: Tableau, Power BI, Matplotlib, Seaborn, Excel
- Machine Learning & Data Science Libraries: Scikit-learn, TensorFlow, Keras
- Databases: MySQL, PostgreSQL, MongoDB
- Other Tools: Jupyter Notebooks, Google Analytics

Languages

- English – C2 (CEFR)
- Spanish – A2 (CEFR)
- Portuguese – Native Speaker