Francisco Lucio de Schneider Bustamante

Data Science Specialist

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Data Scientist with strong experience in SQL, Python, machine learning, and data analysis. Skilled at leading end-to-end projects (from data cleaning to predictive modeling) and improving processes through advanced analytics. Eager to leverage technical and communication skills in data-driven roles.

Professional Experience

Data Science Specialist

Hashtag Treinamentos   *August 2022 – Present*

Hashtag Treinamentos is one of Brazil's largest online education providers, having trained over 80,000 students in Python and Data Science.

- Led the creation and review of comprehensive teaching materials on Python libraries (NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, PyTorch, Streamlit, Plotly/Dash), ensuring up-to-date and industry-aligned content.
- Produced video tutorials on SQL, Git, virtual environments, and Python best practices.
- Improved the Net Promoter Score (NPS) of Data Science courses by 30% through continuous feedback loops and content optimization.
- Introduced real-world projects to the curriculum, covering fraud detection, churn prediction, marketing campaign optimization, price optimization, and computer vision.
  - Developed 15 hands-on projects simulating practical industry scenarios.
- Provided ongoing support to students by answering questions, reviewing code, and offering additional resources to facilitate comprehension of complex topics.

Data Analyst

Uber (through NECTO Systems)   *October 2022 – December 2023*

Allocated to Uber via NECTO Systems, focusing on accounting reconciliation and improving fiscal processes.

- Utilized SQL, Python (Pandas), Hive, and Presto for large-scale data analysis and processing.
- Cleaned and standardized data from multiple sources, ensuring data accuracy and integrity.
- Reviewed and optimized existing data pipelines, improving overall efficiency and reducing error rates by 20%.
- Validated reconciled data for compliance with international accounting standards.
- Assisted Uber in adopting compatible accounting practices and meeting fiscal requirements.
- Implemented automated data search and reconciliation pipelines using data engineering techniques, reducing processing time by 15%.

Science communicator

Ciência Programada   *July 2020 – Present*

Created personal projects aimed at combining science communication with programming.

- Published over 100 articles and created video content explaining programming concepts, Python libraries (Pandas, Matplotlib, etc.), and data-driven approaches to scientific problems.
- Covered coding best practices, Git, and testing methodologies.
- Attracted thousands of monthly visitors, broadening understanding of science and programming.

Researcher and associate professor

IFRJ - Instituto Federal de Educação, Ciência e Tecnologia do Rio de Janeiro   *June 2015 – April 2022*

- Launched a research group on educational software for chemistry, leveraging Python for data visualization (Matplotlib, Plotly), data analysis (Pandas, NumPy, SciPy), and version control (Git).

- Supervised 3 undergraduate research students, coordinating projects using Trello.
- Delivered Physical Chemistry lectures to over 500 students, integrating hands-on experience with Excel and Python to boost employability skills.

Chemist – Laboratory manager

UFF - Universidade Federal Fluminense   *August 2014 – June 2015*

- Oversaw the Central Analytical Facility, scheduling equipment usage and training.
- Increased equipment availability by 100% through improved resource management.
- Automated laboratory usage reports using Python and Excel, significantly streamlining workflows.
- Designed and launched training programs for laboratory equipment operations and data analysis, training over 100 participants.

Environmental analyst

INEA - Instituto Estadual do Ambiente do Rio de Janeiro   *January 2014 – August 2014*

- Automated environmental indicator reports in Excel, improving team productivity by 25%.
- Contributed to implementing ISO/IEC 17025 standards at the Environmental Analysis Laboratory.

Researcher and temporary lecturer

UFF - Universidade Federal Fluminense   *May 2012 – January 2014*

- Supervised two projects focused on creating low-cost educational resources.
- Taught chemistry classes and implemented exercises integrating real-world chemical data analysis.

Education

Master's Degree in Chemistry

Universidade Federal Fluminense   2010 - 2012

- Conducted extensive data analysis using Excel and Origin.
- Published three research papers in international peer-reviewed journals.
- Served on organizing committees for two scientific symposia.

Bachelor's Degree in Chemistry

Universidade Federal Fluminense   2006 - 2010

- Published one scientific paper in a national peer-reviewed journal.

Awards

- **Alumni Laureate Award** for outstanding academic performance (UFF – 2010).
- **Special Academic Scholarship** for a high-impact research project (FAPERJ/UFF – 2011).

Volunteering

Tutor

Coding Dojo Rio de Janeiro   *January 2018 - December 2021*

A Coding Dojo is a collaborative gathering where coders tackle programming challenges and engage in deliberate practice to continuously strengthen their skills. Premise: coding proficiency is an ongoing journey.

- Guided coding sessions focused on Test-Driven Development (TDD) and incremental learning.
- Fostered a welcoming, non-competitive environment for participants of all skill levels.

Key Skills

- **Programming**: Python (Pandas, Matplotlib, Scikit-Learn, TensorFlow, PyTorch), SQL, Git, Docker
- **Data Science**: Machine Learning, Data Visualization, Data Cleaning, ETL, Computer Vision, MLOps
- **Soft Skills**: Teaching, Communication, Team Leadership, Problem-Solving, Agile Methodologies (Trello, Scrum)