

VICTOR DA SILVA

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SUMMARY

Python | SQL | R | Matlab | Alteryx | Statistics | Applied Mathematics | Machine Learning | Research | Scientific Publications | Innovation | Communication Skills | Storage and Data Management

EDUCATION

Ph.D. in Mechanical Engineering

January 2022 - Present

University of Victoria, Victoria, BC, Canada

- Expected completion Fall-2025
- Research focuses on the intersection of machine learning, bioengineering, and statistical methodologies. Main project: Optimizing Bioink Development Through Machine Learning
- Published 1 impactful research paper and 4 comprehensive review papers. Recognized with a prestigious travel award to present at conferences and honored with the Best Poster Presentation prize.

Bachelor's in Biomedical Engineering

January 2014 – December 2019

Federal University of ABC, São Paulo, SP, Brazil

- Thesis was focused on the Analysis of Scaffold Impact on Neural Progenitor Cells Using the K-Nearest-Neighbor Model in MATLAB.
- Chosen as an outstanding student for an exclusive summer program at the University of Seoul, South Korea, in 2019.

RELEVANT EXPERIENCE

Ph.D. Project

January 2022 - Present

University of Victoria, Victoria, Canada

- Published innovative research in a peer-reviewed journal with a 5.6 impact factor.
- Authored and published four review papers, achieving a total of 94 citations.
- Secured a competitive Mitacs Fellowship, bringing \$15,000 in research funding.
- Collaborated in interdisciplinary teams, implementing machine learning and DOE strategies, optimizing the design phases for significant time and materials savings.

Teacher Assistant

January 2022 - Present

University of Victoria, Victoria, Canada

- Enhanced course delivery, contributing to a 60% improvement in student engagement.
- Maintained a high level of attention to detail when marking assignments and exams, exhibiting a strong commitment to accuracy.
- Demonstrated excellent multitasking and time management, streamlining the grading process and reducing turnaround time.

Decision Science Analyst

November 2020 – January 2022

Itaú Unibanco, São Paulo, Brazil

- Developed and implemented statistical models to generate insights that informed business decisions, increasing revenue and improving operational efficiency in the Brazilian vehicle insurance market.
- Created interactive dashboards and automated processes, increasing data accessibility and improving business decision-making.

- Demonstrated strong analytical and problem-solving skills, utilizing tools such as SQL and Python to extract and manipulate data for analysis.
- Analyzed data to identify trends and patterns, providing data-driven recommendations to business stakeholders and improving business outcomes.
- Utilized advanced statistical concepts and computational modeling techniques to create indicators that impact business objectives and key results (OKRs).
- Designed and developed automated pipelines using Alteryx for database updates to Hadoop, ensuring efficient data management.

COURSES AND CERTIFICATION

- **Biomedical Data Science using Python, OmicsLogic (16 weeks):** Executed a comprehensive machine learning program focusing on its application to high-throughput biomedical data.
- **Bioinformatics Tools & Tricks: Hands-On Data Analysis for Biologists, Centre for Computational Medicine (16 weeks):** Applied practical skills in data analysis, machine learning, and predictive modeling using free bioinformatics and statistical software.
- **Health Science Industry, Stem Cell Network (16 weeks):** Completed intensive health science training emphasizing industry-specific skills.
- **Project and Time Management, Mitacs (4 weeks):** Enhanced project and time management skills with a focus on efficiency, email and calendar management, and stress reduction.