

Victor Lopes de Castro

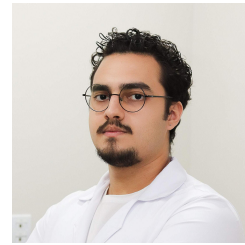
Data Scientist | Full-Stack Developer | Biotechnologist

Goiânia | GO | BR

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Medium: medium.com/@victorlcastro | **Whatsapp:** [Click Here](#)



Professional Summary

Data Scientist with experience in Machine Learning, Data Engineering, and Generative AI (LLM, RAG), complemented by solid experience as a Full-Stack Developer. I work on building data pipelines, decision-support platforms, business-oriented AI solutions, and software development, bridging data science and engineering in a single cycle — from data to production-ready applications.

My path began in Bioinformatics/Biotechnology, where I worked with genetic data, molecular modeling, and immunoinformatics applied to vaccine development. This scientific foundation shaped how I approach complex problems and now complements my work as a data and technology professional.

Professional Experience

Data Scientist - Specialist

Unimed Federação Centro Brasileira | 2025 - Present | Hybrid

- Development and evolution of data pipelines for ingestion, processing, and transformation of large volumes of data.
- Participation in the structuring of a regional Data Warehouse (DW), integrating data to support decision-making across cooperatives in Goiás and Tocantins.
- Development and application of Machine Learning solutions to support decision-making.
- Participation in the development of a medical audit agent based on LLM and RAG, applying Generative AI to analysis processes.
- Development of web portals, applications, and automations to support business processes.
- Participation in DevOps and CI/CD practices for deploying data and software solutions to production.
- Involvement in data governance, security, and quality practices.
- Creation of interactive dashboards and Business Intelligence solutions (Power BI, Python).
- Collaboration with multidisciplinary teams on strategic data projects.
- Support in defining standards, architecture, and organization of the development team.

Full-Stack Developer

Ágil Serviços | 2024 - Remote

- Full-Stack development of a complete system with multiple modules.
- Implementation of interfaces using React, HTML, CSS, and TypeScript.
- Creation and maintenance of APIs in Python.
- Modeling and management of relational databases (PostgreSQL) and non-relational databases on Azure.
- Utilization of Redis for authentication management, user sessions.
- Configuration of CI/CD pipelines on Azure and use of Docker for containerization.

- Clear and structured documentation of development, configuration, and maintenance processes.
- Automation of processes and workflows using Python scripts
- Building Dashboards in Power BI and Python

Intern in Bioinformatics - Analysis and Processing of Neurodegenerative Disease Data

Neurolab - UFG | 2023-2023 - Hybrid

- Conducted data analyses focused on the study of neurodegenerative diseases using Bioinformatics techniques.
- Collaborated with an interdisciplinary team to interpret results, providing insights that influenced the direction of the research.

Intern in Bioinformatics - Immunoinformatics Applied to Vaccine Development

Laboratório de Imunorregulação - UFG | 2022-2023 - Hybrid

- Developed an in silico vaccine model against Chikungunya using Immunoinformatics tools.
- Integrated diverse biological data to optimize the vaccine development process, enhancing the efficiency of the development pipeline.

Intern in Bioinformatics - Molecular Modeling and Pharmacology

Laboratório de Planejamento de Fármacos e Modelagem Molecular - UFG | 2019-2020 -

Remote

- Conducted research to identify inhibitors of Zika virus proteins, resulting in a 2nd place award in Health Sciences from UFG.
- Utilized molecular modeling techniques and data analysis to evaluate the efficacy of candidate compounds, contributing to the advancement of the research.

Education

Bachelor's Degree in Biotechnology

Universidade Federal de Goiás (UFG) | 2019 - 2023

Data Scientist (Data Science)

Ada Tech | 2024 - 2024

Certifications

Data Science Program | **Ada Tech**

Data Scientist in Python | **DataCamp**

Data Analyst in Python | **DataCamp**

Front-end Development - HTML, CSS, JavaScript, React & TypeScript | **Udemy**

Updated Certifications Link ([Click Here](#))

Technical Skills

Programming Languages:

Python, JavaScript, TypeScript, SQL

Backend Development:

Flask, FastAPI, Quart

Frontend Development:

HTML, CSS, React, Vite, Next.js, Tailwind CSS

Data Analysis and Machine Learning:

- **Libraries:** Pandas, NumPy, Scikit-learn, SciPy
- **Visualization Tools:** Matplotlib, Seaborn, Plotly, Power BI
- **Skills:** Feature Engineering, Predictive Modeling, Machine Learning, Statistical Modeling, Data Analysis
- **Generative AI:** LLM, RAG, LangChain, NLP

Database Management:

PostgreSQL, Redis

Development and Version Control:

Git, VS Code

Cloud and DevOps:

Docker, Azure, CI/CD

Other Tools and Libraries:

Jupyter Notebooks, Axios

Soft Skills

Analytical Thinking, Problem Solving, Teamwork, Adaptability, Attention to Detail, Proactivity, Leadership Ability, Critical Thinking, Empathy in Interdisciplinary Collaboration, Creativity, Resilience, Continuous Learning, Emotional Intelligence, Results Orientation, Innovation, Flexibility, Remote Collaboration, Active Listening, and Strategic Vision.

Languages

- **Portuguese:** Native
- **English:** Advanced

Awards and Achievements

- **Finalist (3rd Place)** | NASA Space Apps Challenge 2023 (HACKATHON)
Participated in Team D.U.M.O.N.T., developing technological solutions for space challenges.
- **Finalist (2nd Place)** | Conpeex | Health Sciences | Universidade Federal de Goiás
Awarded for the best projects presented during the Conpeex organized by UFG.

Projects & Portfolio

Ongoing projects on my [GitHub](#).