JULIO RIVEROS

[in] LinkedIn | 📱 +55 (45) 98834-9398 | 🌐 woolierbrooks.com | ✉ jcr.cardus.2020@aluno.unila.edu.br | 🐙 GitHub

Skills

- AWS | Git | Linux | Machine Learning
- Python | R | SQL
- Spanish, Portuguese, Guarani – *All professional proficiency or above*

Experience

Machine Learning Researcher in Biomedical Speech Analysis	**UNILA**	*Remote*	**09/2022 - Current**

- Employed Python-based tools to analyze voice data in Alzheimer's disease prediction, achieving a notable accuracy milestone of 80% using specific Machine Learning models.
- Processed voice recordings to extract relevant patient information, preparing it for numerical analysis.
- Conducted extensive testing of various Machine Learning models, emphasizing the complexity and challenges inherent in predicting Alzheimer's disease from voice data.

Drylab Lead Coordinator	**SynFronteras**	*Remote*	**08/2022 - 12/2023**

- Served as the team drylab leader in an award-winning endeavor, securing a bronze medal in the overgraduate category of the iGEM (International Genetically Engineered Machine) competition.
- Led innovative molecular modeling efforts using AlphaFold2 and ColabFold2 to develop a precise 3D structure prediction for an uncharacterized protein, achieving a 91.02% structural similarity via ERRAT2, ensuring a reliable protein model.
- Conducted molecular dynamics simulations, highlighting increased stability of the complex at lower temperatures, providing key insights into its structural behavior. Additionally, Led docking simulations and correlation analyses, unveiling the fused complex's enhanced affinity to substrates compared to individual proteins, indicating potential for improved binding efficacy.

Teaching Assistant in Computational Thinking for Biotechnology	**UNILA**	*Paraná, Brazil*	**02/2023 - 06/2023**

- Designed problem sets to evaluate students' comprehension of computational methodologies, transforming abstract coding concepts into real-world applications using Python.
- Implemented customized Python coding exercises with biotechnology-oriented scenarios, ensuring a comprehensive understanding of computational thinking principles, resulting in a 100% pass rate.

Teaching Assistant in Computer Programming	**UNILA**	*Paraná, Brazil*	**08/2022 - 12/2022**

- Assisted in clarifying programming concepts and debugging code in Python for over 60 students.
- Utilized Python programming language, interactive sessions, and code reviews to explain fundamental programming principles, leading to an average improvement of 30% in students' coding proficiency within the semester.

Bio-Art Project Member	**Microlândia**	*Paraná, Brazil*	**04/2022 - 12/2022**

- Developed and executed unique artistic creations by leveraging the inherent properties of Bacteria and Fungi on petri plates, merging scientific understanding with artistic expression in five innovative projects.
- Presented physical exhibitions featuring bio-artistic pieces cultivated from bacteria and fungi on petri plates.

Social Media Manager	**LiNABiotec**	*Remote*	**05/2021 - 04/2022**

- Managed and curated engaging social media content, with a focus on Instagram and YouTube platforms.
- Achieved exceptional growth metrics, boasting a remarkable 1190% increase in YouTube views and a substantial 97% rise in Instagram likes within a year.

Education

Bachelor of Science	**Universidade Federal da Integração Latino-Americana**	*Paraná, Brazil*	**02/2020 - Current**

- Major in Biotechnology
  - **Cumulative GPA:** 9.10 / 10.00
  - **Relevant Coursework:** Bioinformatics, Biostatistics, Cell and Tissue Engineering, Computer Programming, Genetic Engineering and Gene Therapy, Genetics of Microorganisms, Immunology Applied to Biotechnology, Molecular Biology, Omic Sciences.
  - **Additional Courses:** Jose Portilla's SQL Bootcamp on Udemy, Bulk RNA-Seq Data Analysis on Udemy.