GABRIEL JONAS AGUIAR

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EDUCATION

Virginia Commonwealth University, Richmond, Virginia	Enrolled: 2021 — Expected: 2024	
Thesis: Learning from imbalanced and active learning on drifting data streams.		Overall GPA: 4.00
Londrina State University, Londrina, Brazil Master of Science in Computer Science Dissertation: A meta-learning approach for selecting image segmentation algorithm	Enrolled: 20	018 — Graduated: 2020 Overall GPA: 4.00
Londrina State University, Londrina, Brazil Bachelor of Science in Computer Science Dissertation: Enhancing contrast in digital images through AI. (PT-BR: Melhoria de contraste em imagens digitais baseada em inteligencia artificial)	Enrolled: 20	014 — Graduated: 2017 Overall GPA: 4.00
PROFESSIONAL EXPERIENCE		
Data Scientist Intern Microsoft Corporation		Redmond, Washington May 2024 - Aug 2024
• Manipulate large volumes of data, create new and improved techniques and/or data collection, management, and usage. Research and develop an understand technologies, and methods that can be utilized to improve state-of-the-art technologies.	solutions for ling of tools, mologies.	
Research Assistant Virginia Commonwealth University		Richmond, Virginia Aug 2021 - date
• Collaborated with a team of researchers to develop and implement cutting-edg and models for data stream analysis and online learning, with a focus on ide addressing challenges related to imbalanced data and semi-supervised learning	e algorithms ntifying and	
Resident Researcher SENAI (National Service of Industrial Training)		Londrina, Brazil May 2020 - July 2021
• Developed and deployed machine learning models for the Brazilian industry advanced algorithms and techniques to optimize production processes and impro-	v, leveraging ve efficiency.	
Intern Programmer Agropixel		Londrina, Brazil Feb 2017 - Dec 2017
• Developed software for vegetative analysis that utilized advanced algorithms an to analyze hyperspectral satellite images.	d techniques	
SKILLS		

- Programming: Python, JavaScript, R, SQL, Java, C/C++, HTML, CSS
- Libraries: scikit-learn, PyTorch, river, Flask, pandas, xgboost, ggplot, d3
- Communication: Pro-active, Problem solving, Collaboration

LANGUAGES

- Portuguese. Native
- English. Fluent
- Spanish. Basic

SCIENTIFIC PRODUCTION INDICATORS

- ORCID: 0000-0001-8162-5069
- $\bullet \ Google \ Scholar: \ https://scholar.google.com/citations?user=GbkOmQUAAAAJ\&hl=en$
- ResearchGate: https://www.researchgate.net/profile/Gabriel-Aguiar-3
- Indexed papers: 10 (April 2, 2024)
- Pre-prints: 0 (April 2, 2024)
- h-index: 5 (April 2, 2024)
- Total citations: 203 (April 2, 2024)

Journals

- 1. Aguiar, G.J.; Cano A. A comprehensive analysis of concept drift locality in data streams. Knowledge-based Systems, 2024, Elsevier.
- 2. Aguiar, G.J.; Cano A. Dynamic budget allocation for sparsely labeled drifting data streams. Information Sciences, 2024, Elsevier.
- 3. Aguiar, G.J.; Krawczyk B.; Cano A. A survey on learning from imbalanced data streams: taxonomy, challenges, empirical study, and reproducible experimental framework. Machine Learning, 2023, Springer.
- 4. Junior, S.B.; Guido, R.C.; Aguiar, G.J.; Santana, E.J.; Junior, M.L.P.;Patil, H.A. Multiple voice disorders in the same individual: Investigating handcrafted features, multi-label classification algorithms, and base-learners. Speech Communication, 2023, Elsevier.
- 5. Aguiar, G.J.; Santana E.J; de Carvalho, A.C.P.F.L.; Barbon, S.. Using Meta-Learning for Multi-target Regression. Information Sciences, 2022, Elsevier.
- 6. Aguiar, G.J.; Mantovani, R.G.; Mastelini, S.M.; de Carvalho, A.C.P.F.L.; Campos, G.F.C.; Barbon, S.. A metalearning approach for selecting image segmentation algorithm, Pattern Recognition Letters, 2019, Elsevier.
- Campos, G.F.C.; Mastelini, S.M.; Aguiar, G.J.; Mantovani, R.G.; de Melo, L.F.; Barbon, S.. Machine learning hyperparameter selection for Contrast Limited Adaptive Histogram Equalization, EURASIP Journal on Image and Video Processing, 2019, Springer.

Conferences

- 1. Aguiar, G. J.; Cano, A.. An active learning budget-based oversampling approach for partially labeled multi-class imbalanced data streams. In 2023 38th ACM/SIGAPP Symposium on Applied Computing.
- 2. Aguiar, G. J.; Cano, A.. Enhancing Concept Drift Detection in Drifting and Imbalanced Data Streams through Meta-Learning. In 2023 IEEE Conference on Big Data.
- 3. Aguiar, G. J.; Santana, E. J.; Mastelini, S. M.; Mantovani, R. G.; Barbon, S.. Towards meta-learning for multi-target regression problems. In 2019 8th Brazilian Conference on Intelligent Systems (BRACIS).