Curriculum Vitae

PERSONAL DATA

NAME: Saulo Martiello Mastelini

NATIONALITY: Brazil
DATE OF BIRTH: 15/02/1993

PLACE OF BIRTH: Cândido de Abreu, Brazil
EMAIL: saulomastelini@gmail.com

WEBSITE: https://smastelini.github.io/

LINKEDIN: https://www.linkedin.com/in/smastelini/

PROFESSIONAL EXPERIENCE

O1/2023-ongoing | Artificial Intelligence (AI) Consultant at Volt Robotics

Worked on creating Machine Learning (ML) forecasting and clustering models for the electricity market, and applying Explainable AI (XAI) to better understand the Brazilian

electricity system dynamics

Machine Learning lecturer in the Software Engineering specialization of the State University of

03/2023-11/2023 | Londrina

Taught the course: Introduction to Data Science with Python

Teaching assistant in the Data Science MBA of the Institute of Mathematics and Computer

Science - University of São Paulo

Mentored students and taught the practical aspects of using Python tools in the Machine

Learning course

OPEN SOURCE CONTRIBUTIONS

Maintainer and founding member of the Online Machine Learning library

River

2020-2021

https://riverml.xyz Github stars: 4.8k Downloads: 650k

EDUCATION

06/2018-02/2023 | PhD in Computer Science and Computational Mathematics, University of São Paulo,

São Carlos, Brazil. Thesis title: Efficient online tree, rule-based and distance-based algorithms.

Supervisor: André Carlos P. L. F. de Carvalho

02/2022-09/2022 | VISITING RESEARCHER at LIAAD (INESC TEC) and Faculdade de Economia da Universidade

do Porto, Porto, Portugal Supervisor: João Gama

03/2016-02/2018 | MSc in COMPUTER SCIENCE, State University of Londrina, Londrina, Brazil

Supervisor: Sylvio Barbon Jr.

2012-2016 BSc in COMPUTER SCIENCE with honors, State University of Londrina, Londrina, Brazil

Supervisor: Sylvio Barbon Jr.

SCIENTIFIC PRODUCTION INDICATORS

ORCID: https://orcid.org/0000-0002-0092-3572

Google Scholar: https://scholar.google.com.br/citations?hl=en&user=eBtNmMEAAAAJ

ResearchGate: https://www.researchgate.net/profile/Saulo_Mastelini

h-index: 19
Total citations: 1036

LANGUAGE SKILLS

ENGLISH: Advanced PORTUGUESE: Native SPANISH: Basic

RECENT RELEVANT PUBLICATIONS

Articles published in journals:

- Mastelini, S. M., Veloso, B., Halford, M., de Leon Ferreira, A. C. P., & Gama, J. (2024). SWINN: Efficient nearest neighbor search in sliding windows using graphs. *Information Fusion*, 101, 101979.
- Mastelini, S. M., Nakano, F. K., Vens, C., & de Leon Ferreira, A. C. P. (2022). Online Extra Trees Regressor. *IEEE Transactions on Neural Networks and Learning Systems*.
- Mastelini, S. M., Cassar, D. R., Alcobaça, E., Botari, T., de Carvalho, A. C., & Zanotto, E. D. (2022). Machine learning unveils composition-property relationships in chalcogenide glasses. *Acta Materialia*, 240, 118302.
- Mastelini, S. M., & de Leon Ferreira, A. C. P. (2021). Using dynamical quantization to perform split attempts in online tree regressors. *Pattern Recognition Letters*, 145, 37-42.
- Montiel, J., Halford, M., Mastelini, S. M., Bolmier, G., Sourty, R., Vaysse, R., ... & Bifet, A. (2021). River: machine learning for streaming data in Python. *Journal of Machine Learning Research*, 22, 1-8.

Articles published in conferences:

- Mastelini, S. M., Montiel, J., Gomes, H. M., Bifet, A., Pfahringer, B., & de Carvalho, A. C. (2021, December). Fast and lightweight binary and multi-branch Hoeffding Tree Regressors. In 2021 International Conference on Data Mining Workshops (ICDMW) (pp. 380-388). IEEE.
- Gomes, H. M., Montiel, J., Mastelini, S. M., Pfahringer, B., & Bifet, A. (2020, July). On ensemble techniques for data stream regression. In 2020 International Joint Conference on Neural Networks (IJCNN) (pp. 1-8). IEEE.

SCHOLARSHIPS AND CERTIFICATES

04/2016-03/2018 | CAPES Scholarship for MSc

01/08/2018-14/02/2023 | FAPESP grant #2018/07319-6, Multi-target regression stream mining

25/03/2018-31/07/2022 | FAPESP grant #2021/10488-7, Online Nearest Neighbor Search

COMPUTER SKILLS

Basic Knowledge: HTML, css, Javascript, annoy, pytorch, tensorflow, Rust

Intermediate Knowledge: R, C/C++, Java, shap

Advanced Knowledge: river, scikit-learn, numpy, pandas, Python, xgboost, lightgbm, sktime