Bruna Zamith Santos

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Main Areas of Interest

- **Data Science, Machine Learning, Research & Development, Software Engineering**

Professional Experience

- **Amazon** — Sao Paulo, SP - Brazil
  Data Scientist II — Mar. 2022 – Present
  - Developing Machine Learning models to improve operations, profitability and customer experience for Amazon LatAm. *Technologies: AWS, Python, SQL*

- **Amazon** — Sao Paulo, SP - Brazil
  Software Development Engineer II — Dec. 2021 – Feb. 2022
  Software Development Engineer I — Jul. 2020 – Nov. 2021
  Software Development Intern — Jan. 2020 – Jul. 2020
  - Worked with both front and backend development. Modelled large scale applications, integrated with Amazon's core internal systems to improve the seller and buyer experiences. *Technologies: AWS, Java, Python, NodeJs*

- **Serasa Experian** — Sao Carlos, SP - Brazil
  MIS Intern — Aug. 2019 – Dec. 2019
  - MIS (Management Information Systems) Intern. Worked with databases and on the construction of dashboards, in alignment with the needs of the Finance Department. *Technologies: SQL, SAS, Tableau*

Research Experience

- **BioMaL - Bioinformatics and Machine Learning Group** — Sao Carlos, SP - Brazil
  Masters Candidate — Aug. 2021 – Aug. 2023
  Scientific Initiation Scholar — Mar. 2015 – Sep. 2020
  - Project team leader in the development of three scientific researches. Two of them funded by Sao Paulo Research Foundation (FAPESP) and National Council for Scientific and Technological Development (CNPq). Worked with different machine learning algorithms and datasets. Resulted in the publication of 5 papers. *Technologies: Python, R*
  - As a Master Candidate, working in the project entitled **"Climate Variables Forecasting and Forest Fire Risk Rate Classification in the Brazilian Pantanal"**, which is supported by Brazilian Agricultural Research Corporation (Embrapa). *Technologies: Python*

- **Katholieke Universiteit Leuven (KU Leuven)** — Kortrijk, Flanders - Belgium
  Research Intern — Sep. 2017 – Dec. 2017
  - Scientific research **"Predicting Protein Functions via Interaction Prediction"**. Funded by Sao Paulo Research Foundation (FAPESP). The main purpose was to model the protein function prediction task as a Hierarchical Multi-label Classification (HMC) problem through interaction data. *Technologies: Java*

Education

- **Federal University of Sao Carlos (UFSCar)** — Sao Carlos, SP - Brazil
  Masters in Artificial Intelligence — Aug. 2021 – Present
  - **GPA:** 10/10

- **Federal University of Sao Carlos (UFSCar)** — Sao Carlos, SP - Brazil
  Bachelor in Computer Engineering — Mar. 2015 – Jul. 2020
  - **GPA:** 8.75/10

Programming Skills

- **Languages:** Python (5 years); Java (5 years); R (2 years); SQL (2 years); C++ (6 months)
- **Others:** AWS, Git, Linux, Latex

Language

- **Portuguese:** Native
- **English:** Fluent (Cambridge English Certificate ESOL Intl)

Presentations, Proceedings, and Papers

- **"A New Time Series Framework for Forest Fire Risk Forecasting and Classification"** Zamith B., Soriano, B., Narciso, M., Furtado, D., Cerri R. (2023). International Joint Conference on Neural Networks (IJCNN).
- **"Predictive Bi-Clustering Trees for Hierachical Multi-label Classification"** Zamith B., Nakano, K. F., Cerri R., Vens C. (2020). European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD).
- **"Strategies for Selection of Positive and Negative Instances in the Hierarchical Classification of Transposable Elements"** Zamith B., Pereira, T. G., Nakano, K. F., Cerri R. (2018). Brazilian Conference on Intelligent Systems (BRACIS).
- **"A Genetic Algorithm for Transposable Elements Hierarchical Classification Rule Induction"** Pereira, T. G., Zamith B., Cerri R. (2018). IEEE Congress on Evolutionary Computation (IEEE CEC).
- **"A New Machine Learning Dataset for Hierarchical Classification of Transposable Elements"** Zamith B., Cerri R. (2016). National Meeting of Artificial and Computational Intelligence (ENIAC).
- **"Decisions Trees for Hierarchical Classification of Transposable Elements"** Zamith B., Gomes Mantovani R., Schietgat L., Vens C., Cerri R. (2016). Proceedings of the 25th Belgian-Dutch Machine Learning Conference (Benelearn).