Bruna Zamith Santos

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Professional Experience

Amazon — Sao Paulo, SP - Brazil

- Software Development Engineer II — Dec. 2021 – Present.
  Software Development Engineer I — Jul. 2020 – Nov. 2021
  Software Development Intern — Jan. 2020 – Jul. 2020
  - Software Development Engineer at the INTech LaTam team. 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. Implemented distributed systems using a broad gamma of AWS products.

- **BioMaL - Bioinformatics and Machine Learning Group** — Sao Carlos, SP - Brazil
  Scientific Initiation Scholar — Mar. 2015 – Sep. 2020
  - Project team leader in the development of two scientific researches. Funded by Sao Paulo Research Foundation (FAPESP) and National Council for Scientific and Technological Development (CNPq). Worked with different machine learning algorithms from Scikit-learn (in Python) and construction of datasets (in R). Resulted in the publication of 5 papers (3 in international conferences).

- **Serasa Experian** — Sao Carlos, SP - Brazil
  MIS Intern — Aug. 2019 – Dec. 2019
  - MIS (Management Information Systems) Intern. Worked on database development and structuring (making use of SAS/SQL). Also, contributed to the construction of Dashboards (making use of Tableau) in alignment with the needs of the Finance Department.

- **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.
  - In order to do that, a decision tree learner developed for HMC (in Java) was extended to the interaction prediction context. It obtained better results in 6 from 16 datasets and no statistical difference on the other ones, when compared to the state-of-art Clus-HMC.

Education

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

- **Federal University of Sao Carlos (UFSCar)** — Sao Carlos, SP - Brazil
  Bachelor in Computer Engineering — Mar. 2015 – Jul. 2020
  - **Eletives:** Web Development, Cybersecurity, Introduction to Neural Networks.
  - **GPA:** 8.75/10

Programming Skills

- **Languages:** Java (4 years); R, Python (2 years); SQL (1 year); C++ (6 months)
- **Others:** Tableau, SAS, Linux, Latex, Git

Language

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

Presentations, Proceedings, and Papers

- **"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).