

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 – Present
 - 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 Hierarchical 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).

CERTIFICATIONS

- **Sequence Models (2022):** 38 hours online course provided by DeepLearning.ai.
- **Sequences, Time Series and Prediction (2022):** 23 hours online course provided by DeepLearning.ai.
- **Introduction to AWS (2020):** 5 hours online course provided by A Cloud Guru.
- **Version Control With Git (2019):** 12 hours online course provided by Atlassian.
- **Software Development Processes and Methodologies (2019):** 18 hours online course provided by University of Minnesota.

OTHER PROJECTS

- **School of AI - Health Hackathon (2019):** Team project aimed to develop an app which seeks to reduce patients waiting time (at hospitals queue). The patient types what he is feeling and then via Natural Language Processing the symptoms are classified into a medical specialty.
- **Intel IoT Roadshow (2015):** Team project aimed to develop a “smart” bathroom making use of relevant capacity utilization data, and trigger “on demand” cleaning process alert, which leads to resources use optimization.