Vinícius Mioto

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PERSONAL STATEMENT

Passionate about combining theory and practice in Computer Science and developing advanced technologies that bring positive impacts to the world. I am currently seeking a research internship in Artificial Intelligence and Machine Learning.

ACADEMIC BACKGROUND

Federal University of Paraná (UFPR)   2020 – Present
BSc Computer Science   Curitiba, PR

Federal Institute of Paraná (IFPR)   2016 – 2019
Integrated High School and Technical Computer Science Course   Colombo, PR

ACADEMIC, RESEARCH & INDUSTRIAL EXPERIENCE

École de Technologie Supérieure (Mitacs Globalink)   Mai. 2024 – Ago. 2024
Research Intern - Artificial Intelligence & Software Engineering   Montréal, Québec

- Conducted research with Dr. Fabio Petrillo to validate and improve the Xumes framework (for Python), combining Behavior-Driven Development (BDD) and Reinforcement Learning (RL) for game testing, including developing some 2D platform game using Godot Engine.
- Implemented manual and automated testing strategies, addressing challenges in test creation and integrating RL agents for complex 3D games (e.g. Super Tux Party), enhancing game testing processes and facilitating the use of advanced AI techniques.
- Writing a paper on the findings and advancements made during the research project, focusing on game testing methodologies and the application of the Xumes framework.

Bradesco Bank   Nov. 2023 – Present
Data Science Intern   Curitiba, PR

- I work in converting raw data into valuable insights that inform strategic business decisions. I craft and execute queries with Teradara SQL to organize and process data, constructing analytical databases to facilitate analysis. My responsibilities encompass conducting exploratory data analysis, ensuring data integrity through cleansing and filtering processes with Python.
- I design Business Intelligence dashboards using Tableau, providing stakeholders with intuitive tools for data interpretation. I contribute to measuring the effectiveness of CRM campaigns, aiding in optimization efforts and generating comprehensive reports targeted at Bradesco's extensive customer base of over 70 million clients.

Center for Scientific Computing and Open Source Software (C3SL - UFPR)   Jan. 2023 – Nov. 2023
Research Intern - Software Engineering   Curitiba, PR

- I worked in the project focused on "Content Evaluation and Gamification for Educational Platforms" within a Brazilian federal government educational initiative. Designed and implemented a priority queue system for content approval and integrated gamification mechanisms to elevate user engagement and retention. Cultivated expertise in project management, research methodologies, web development, software engineering principles, and user-centred design.
- The project is fully funded by the Brazilian Ministry of Education and it has user base of 28,000 individuals and hosts a vast repository of over 300,000 diverse materials encompassing videos, audios, and texts. Project supervisor: Dr. Luis Carlos Erpen de Bona.

Tutorial Education Program (PET - UFPR)   Oct. 2020 – Aug. 2022

Undergraduate Researcher   Curitiba, PR

- I worked in the project "ML and Social Networks" that was focused in recognizing power-law graphs with Machine Learning algorithms and using a reduced set of structural features. My role involved conducting ML experiments, performing feature engineering, and mining social networks for data. Supervisors: Dr. André Luis Vignatti and Dr. Alane Marie Lima.
- I led some projects at the intersection of artificial intelligence and data science. One notable endeavor is "ADEGA" an application developed by the group, now integral to the course coordinators' arsenal for assessing student performance and extracting valuable insights into course dynamics.

Herbarium Botanical Laboratory   Nov. 2017 – Feb. 2019

Marketing Apprentice   Colombo, PR

- Conducted comprehensive data collection and pricing analysis on company and competitor products, focusing particularly on online platforms, to furnish actionable reports and strategic insights for the team.
- Managed database updates and crafted spreadsheets to dissect and interpret e-commerce customer activities and behaviors, enabling targeted marketing strategies and informed decision-making.

VOLUNTEERING

Enactus UFPR   Aug. 2021 – Oct. 2022

Marketing Manager   Curitiba, PR

- I led a project repurposing and recycle dishwashing sponges into mattresses to improve job prospects and quality of life for vulnerable populations. Responsibilities included project management, community engagement, social media marketing, event coordination, and website management. The initiative created employment opportunities, promoted environmental sustainability, and showcased the transformative impact of social entrepreneurship.
- Supervisor: Dr. Helena H. L. Borba

RESEARCH PAPERS

Academic Course Statistical Data Analysis (ADEGA)

Ana P. A. Sodré, Bruno H. Meyer, Bruno M. Junior, Henrique Margotte, Matheus P. de Miranda, Odair M. D. Junior, Pedro P. de Andrade, Tiago S. Valadares, Vinícius Mioto

- https://doi.org/10.5902/2448190467933
- Análise de Dados Estatísticos da Grade Acadêmica (ADEGA) [in Portuguese]

LANGUAGES

Native Portuguese, Advanced English and Basic Spanish

COURSES AND CERTIFICATIONS

2021 : Introduction to Natural Language Processing - Analytics Vidhya
2021 : Science Training School - State University of Londrina
2021 : Python Fundamentals for Data Analysis - Data Science Academy
2018 : English Immediate Conversation - Wizard