

# Vinícius Mioto

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## PERSONAL STATEMENT

I am an undergraduate student and researcher driven by a passion for innovation and problem-solving in Computer Science. I am excited to combine cutting-edge research with practical applications across a wide range of projects and domains. I thrive in collaborative environments, where we can share knowledge, learn from others, and work as part of a team to achieve common goals.

## ACADEMIC BACKGROUND

<b>Federal University of Paraná (UFPR)</b> <i>BSc Computer Science</i>	2020 – Present Curitiba, PR
<b>Federal Institute of Paraná (IFPR)</b> <i>Integrated High School and Technical Computer Science Course</i>	2016 – 2019 Colombo, PR

## ACADEMIC, RESEARCH & INDUSTRIAL EXPERIENCE

<b>Driva</b> <i>Business Intelligence Intern</i>	Nov. 2024 – Present Curitiba, PR
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- I work as a Business Intelligence and Customer Success consultant, my main tasks consist of analyzing and segmenting the market for companies in different sectors. My goal is to find data-driven and cutting-edge technology solutions for complex business challenges.
- Some of our projects involve dashboards and data story telling, web scraping crawling, natural language processing, and workflow automation. The main tools are Python, SQL, PowerBI, Spread Sheets, Google Cloud.

<b>École de Technologie Supérieure (Mitacs Globalink)</b> <i>Research Intern - Artificial Intelligence &amp; Software Engineering</i>	Mai. 2024 – Ago. 2024 Montreal, QC
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- Conducted research with Dr. Fabio Petrillo on combining Behavior-Driven Development (BDD) and Reinforcement Learning (RL) for game testing. I implemented manual and automated testing strategies, addressing challenges in test creation and integrating RL agents for complex 3D games.
- We also researched about recording-based game test automation tools, to explore what are the available tools for software engineers to address the challenges of game development and testing. The whole research focused on the main problems faced in the game industry. This experience provided me with significant personal growth in cultural, linguistic, and social aspects.

<b>Bradesco Bank</b> <i>Data Science Intern</i>	Nov. 2023 – Apr 2024 Curitiba, PR
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- I work on Big Data projects that turn raw data into valuable insights for strategic business decisions. I create queries with Teradata SQL to construct analytical databases that facilitate the CRM workflow. My responsibilities encompass conducting exploratory data analysis, ensuring data integrity and quality by using Python scripts.
- I design Business Intelligence dashboards in Tableau, providing stakeholders with data visualizations tools. 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.

<b>Center for Scientific Computing and Open Source Software (C3SL - UFPR)</b> <i>Research Intern - Software Engineering</i>	Jan. 2023 – Nov. 2023 Curitiba, PR
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- 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 system for content approval and integrated gamification mechanisms to elevate user engagement and retention. I worked with JavaScript (back-end) and PostgreSQL.

- The project is open source and it 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 that was focused in recognizing power-law graphs with Machine Learning algorithms by using a reduced set of structural features. My role involved conducting ML experiments, performing feature engineering, and mining social networks data (graph mining). 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 open source 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 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**

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### **Enactus UFPR**

Aug. 2021 – Jul. 2022

*Marketing Manager*

Curitiba, PR

- I led the Marketing team of a project for repurposing and recycle dishwashing sponges into mattresses to improve job prospects and quality of life for vulnerable populations. My responsibilities included project management, maintaining social media and website, event coordination. I also edited videos with CapCut, designed and created logos and posts with Canva.
- The initiative created employment opportunities, promoted environmental sustainability, and showcased the transformative impact of social entrepreneurship. The project was supervised by Dr. Helena H. L. Borba.

## **RESEARCH PAPERS**

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### **A Mapping of Recording-based Game Test Automation Tools – 2024**

Vinícius Mioto and Fabio Petrillo

- Accepted for 9th International Workshop on Games and Software Engineering – To be published.

### **Academic Course Statistical Data Analysis (ADEGA) [in Portuguese] – 2021**

Ana P. A. Sodr , Bruno H. Meyer, Bruno M. Junior, Henrique Margotte, Matheus P. de Miranda, Odair M. D. Junior, Pedro P. de Andrade, Tiago S. Valadares, Vin cius Mioto

- <https://doi.org/10.5902/2448190467933>

## **LANGUAGES**

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- Portuguese: Native speaker
- English: Fluent
- French: Basic
- Spanish: Basic

## **COURSES AND CERTIFICATIONS**

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**2025** : Supervised Machine Learning: Regression and Classification - Stanford University and DeepLearning.AI

**2024** : Mitacs Globalink Research Internship - Canada

**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