

# AutoAI Hub: From Data to Society, Democratizing Machine Learning for Everyone

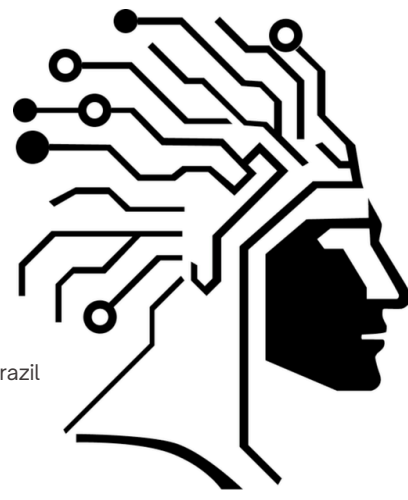
Robson P. Bonidia and André C. P. L. F. de Carvalho (and Team)

<sup>1</sup>Institute of Mathematics and Computer Sciences, University of São Paulo, São Carlos 13566-590, Brazil

<sup>2</sup>Department of Computer Science, Federal University of Technology - Paraná, UTFPR, Cornélio Procópio 86300-000, Brazil

<sup>3</sup>Global South Artificial Intelligence for Pandemic and Epidemic Preparedness and Response Network (AI4PEP)

Contacts: rpbondia@gmail.com and andre@icmc.usp.br



## AutoAI Hub

## 1 Background

### From COVID-19 to Future Pandemics

- Lack of preparedness remains a global challenge
- AI enables powerful solutions
- BUT: requires technical expertise
- Health and biology professionals are often excluded

### The Real Problem

- High technical barriers limit adoption
- Limited access to AI technologies
- Tools remain complex for non-experts
- Growing inequality in global AI adoption
- The expertise gap prevents wider usage


### AI for non-experts: AutoAI Hub

- No-code platform for AI solutions
- Designed for health and biology professionals
- Accessible tools for real-world applications
- Scalable platform for diverse contexts
- Supports research and clinical diagnostics

## 2 Democratizing AI Knowledge in LAC and the Global South




## 3 AI for Everyone: Solutions Designed for Impact




**BioAutoML**

A no-code platform that allows biologists to build machine learning models



**BioPrediction**


An automated tool to predict interactions between biological sequences



**ChemAutoML**


Democratizing Cheminformatics

An open-source platform that automates the development of machine learning models for pharmaceutical chemistry



**MathFeature**

An open-source package for DNA, RNA, and protein sequences



**InteliGente**

BUILDING PATHS OF EQUALITY WITH ARTIFICIAL INTELLIGENCE

An educational initiative for training a generation of young people in ethical and socially responsible AI

## 4 Impact of Our Project

**200,000+**  
directly and indirectly impacted

**150,000+**  
Accesses, reaching a broad audience

**2,500+**  
educated through our initiatives

**250+**  
Academic citations

**50+**  
Countries have cited our tools

**40+**  
Awards and recognitions

## 5 AutoAI Hub



## 6 AI4PEP

