



Gabriel Vieira

About Me

IT professional with experience on computer vision and predictive models specialized on developing solutions for companies on the industry 4.0.

Contact



+55 43 98417-1706



devGvieira@gmail.com



Londrina, Paraná - Brazil



github.com/devGvieira

Education

State University of Londrina

Physics - Licentiate Degree
2017-2023

State University of Londrina

Physics - Bachelor's Degree
2017-2025

Federal Technological University of Paraná

Computer Science - M.Sc. Degree
2023-2025

State University of Londrina

Educational Technology - Specialization
2023-2025

SENAI - Institute of Innovation

AI Residency - Specialization
2023-2025

Languages

- Portuguese - Native
- English - Fluent
- German - Intermediate
- French - Basic

References

LEONARDO SANCHES

PDI Consultant at AI Hub/SENAI-PR
leonardo.sanches@sistemafiep.org.br

Experience

AI Resident

2023 - Present

- Development of solutions using artificial intelligence for companies in the industry 4.0;
- Construction of data science models to solve business' pain points and increase value.

Private Teacher

2019-Present

- Lectures to students of any age at a 35+ years old school;
- Subjects including physics, mathematics, English, history, sociology, geography, philosophy and arts.

Technical Translator

2019-Present

- Technical translation and/or review of scientific articles and documents alike;
- Fields covered include civil engineering, physics and biology.

Skills

- ✓ AI Modelling
- ✓ Data-Driven Insights
- ✓ Storytelling
- ✓ Software Development
- ✓ Professional Communicator

Technologies

- ✓ Python
- ✓ SQL
- ✓ HTML
- ✓ CSS

Frameworks

- ✓ TensorFlow/Keras
- ✓ Scikit-Learn
- ✓ Django
- ✓ Streamlit
- ✓ Pandas
- ✓ Plotly/Seaborn/Matplotlib

AI Algorithms

- ✓ XGBoost
- ✓ Random Forest
- ✓ K-Means
- ✓ KNN

AI Models

- ✓ Neural Networks
- ✓ Physics-Informed Neural Networks
- ✓ Fully Convolution Networks
- ✓ Convolutional Neural Networks

Projects

Analysis of Brazilian Development Indicators

2023

- Dashboard on Streamlit for regarding the temporal evolution of development indicators from Brazil;
- Data wrangling made with Pandas and data visualization using different types of graphs from Plotly.

Binary Classification of Images

2023

- AI model for binary classification of images;
- The model applied was a Convolutional Neural Network;
- The technique of transfer learning was applied aside from implementation of early stopping and reduction of the learning rate through a mathematical function;

Data Wrangling of Typhoon Incidences in Japan

2023

- Wrangling of a challenging dataset using various methods from Pandas;
- Data obtained from a Japan's governmental institution.

Newtonian Cosmology

2023

- Study of the Universe's expansion using Friedmann Equations;
- Study of the formation phenomenon of large-scale structures and Jeans Fluid Theory, respectively.

A Conceptual Introduction to Cosmology

2022-2023

- Paper published for the Institute of Czech-Brazilian Academic Cooperation;
- A study that had as objective introducing the main concepts inherent to the physics' field of cosmology;
- Among the topics covered one will find cosmic microwave background, cosmological principle, redshift, the Universe's expansion and formation of large-scale structures.

Study of Composite Bulk-Fill Resins

2018-2019

- Research on physical characteristics of dental resins using an applied nuclear physics technique, X rays microcomputed tomography;
- Analysis made through 3D reconstruction of imagery.