

# KLEYTON DA COSTA

MACHINE LEARNING RESEARCHER | RESEARCH ENGINEER | DATA SCIENTIST

• kleyton.vsc@gmail.com • +55 21 9 8305 6407 • <https://kleytondacosta.com>

## EDUCATION

---

- Pontifical Catholic University of Rio de Janeiro (PUC-Rio)** • Brazil Mar 2023 – Dec 2024  
*MSc. • Computer Science*
- Federal Rural University of Rio de Janeiro (UFRRJ)** • Brazil Mar 2017 – Dec 2021  
*BSc. • Economics*

## WORK EXPERIENCE

---

- Machine Learning Researcher** – Holistic AI Oct 2021 – present  
London, England, UK
- Building tools and methods to make AI more responsible in main two areas: bias measuring & mitigation and explainability
- Researcher** – PUC-Rio Mar 2023 – present  
Rio de Janeiro, Brazil
- Implementing anomaly detection in oil wells using unsupervised algorithms
- Data Scientist** – State Government of Rio de Janeiro Jan 2022 – Mar 2023  
Rio de Janeiro, Brazil
- Advising the State Government of Rio de Janeiro on data science projects
- Summer Intern** – Holistic AI Jul 2021 – Oct 2021  
London, England, UK

## SELECTED RESEARCH PAPERS

---

- KUMAR, R., KOSHIYAMA, A., COSTA, K., et al. **Deep learning model fragility and implications for financial stability and regulation.** 2023. [[pdf](#)]
- MUNOZ, C.; COSTA, K.; MODENESI, B.; KOSHIYAMA, A. **Local and Global Explainability Metrics for Machine Learning Predictions.** 2022. [[pdf](#)]
- CARBO-BUSTINZA, N.; COSTA, K.; LÓPEZ-GONZALES, JL.; et al. **A machine learning approach to analyse ozone concentration in metropolitan area of Lima, Peru.** Nature Scientific Reports. 2022; 12(22084). [[pdf](#)]
- SILVA, F.L.C; COSTA, K.; CANAS, P.; SALAS, R.; López-Gonzales, JL. **Statistical and Artificial Neural Networks Models for Electricity Consumption Forecasting in the Brazilian Industrial Sector.** Energies. 2022; 15(2):588. [[pdf](#)]
- COSTA, K. **Redes Neurais Artificiais para Análise e Previsão de Fenômenos Econômicos: Avaliando o Grau de Monetização da Economia Brasileira.** Encontro da ANPEC, 2022. [[pdf](#)]
- COSTA, K.; SILVA, F. L. C.; COELHO, J. S. C. **Time Series Models Combination for Forecasting Quarterly GDP Components by the Expenditure Side.** Anais do LIII Simpósio Brasileiro de Pesquisa Operacional, 2021. v. 53. [[pdf](#)]
- COSTA, K.; SILVA, F. L. C. . **Artificial Neural Networks and Conditional Heteroscedastic Models for Forecasting Exchange Rate.** Proceeding Series of the Brazilian Society of Computational and Applied Mathematics, 2021. v. 8. [[pdf](#)]

*Updated as of January 25, 2024*