

KLEYTON DA COSTA

AI ENGINEER | AI RESEARCHER

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EDUCATION

- Pontifical Catholic University of Rio de Janeiro (PUC-Rio)** • Brazil Mar 2023 – Mar 2025
MSc. • Computer Science
- Federal Rural University of Rio de Janeiro (UFRRJ)** • Brazil Mar 2017 – Dec 2021
BSc. • Economics

WORK EXPERIENCE

- AI Engineer** – Holistic AI Aug 2025 – present
London, England, UK
- Building AI products using serverless frameworks and autonomous AI agents
- AI Researcher** – Holistic AI Oct 2021 – present
London, England, UK
- Building tools and methods to make AI more responsible in two main areas: bias measuring & mitigation and explainability
- Researcher** – PUC-Rio Mar 2023 – Aug 2025
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

- WU, Z., CHO, S., MOHAMMED, U., MUNOZ, C., COSTA, K. et al. **LibVulnWatch: A Deep Assessment Agent System and Leaderboard for Uncovering Hidden Vulnerabilities in Open-Source AI Libraries**. 2025. [[pdf](#)]
- 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. **Artificial Neural Networks for the Analysis and Forecasting of Economic Phenomena: Assessing the Degree of Monetization of the Brazilian Economy**. 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](#)]

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