Kleyton da Costa

Machine Learning Researcher | Research Engineer | Data Scientist

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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]

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