João Eduardo Reis (John)
PhD in Mathematics - Data Analysis & Machine Learning Practitioner
Gold Coast, QLD - Portfolio 💼 GitHub 🐙 LinkedIn 🔗

Independent Project (2025)

ML Deployment Platform. Built an end-to-end Machine Learning Deployment Platform integrating automated data ingestion, multi-model forecasting, backtesting, and daily CI/CD pipelines. Delivered two live dashboards (Market & Forecasts) through a Django web interface and designed the system to easily incorporate new Python and R models. (Django, Supabase, GitHub Actions, Render)
Dashboards: Market 📊 Forecast 📊 Github Repository 🐙 Details 🔍

Capstone Projects (MIT-IDSS, 2025)

Amazon Product Recommender. Built a recommendation engine to predict products users may like based on past behaviour. (Collaborative Filtering, Matrix Factorisation)
Github Repository 🐙 Streamlit App 👑 Details 🔍

Lead Conversion Prediction. Developed a model to identify leads most likely to convert into paying customers. (Logistic Regression, Random Forest, Gradient Boosting.) Details 🔍

Customer Personality Segmentation. Performed customer segmentation based on purchasing behaviour and demographic traits. (K-Means, Agglomerative Clustering, Gaussian Mixture Models.) Details 🔍

Education & Certifications

Massachusetts Institute of Technology (MIT), IDSS (2025):
Data Science and Machine Learning - Making Data-Driven Decisions. Certificate 🏅

Mindroom Innovation (2024–Present): Diploma in Database Management

IT Courses (Mindroom Innovation):
- Integrate Databases with Websites (HTML, PHP, SQL, phpMyAdmin)
- Create and Develop REST APIs (Django)

Kaggle Certificates: 🏅

Federal University of Rio de Janeiro (2011–2013): Postdoctoral Researcher in Mathematics
Federal University of Rio de Janeiro (2006–2011): PhD in Mathematics
Federal University of Goiás (2004–2006): Master's in Mathematics
Federal University of Goiás (2000–2003): Bachelor's in Mathematics

Technical Exposure

Programming: Python, R, SQL, PHP, HTML/CSS
Machine Learning: EDA, Statistical Testing, Regression, Classification, Clustering, Time-Series Forecasting
Frameworks & Tools: Django, Supabase (Postgres), Streamlit, GitHub Actions, Render, phpMyAdmin, Power BI, Power Query

Additional Information

Research-Oriented: Scientific publication in an indexed mathematics journal 📰
Mentoring: Supervised a final-year undergraduate thesis 📰

Work Experience

Cluey Learning (2023–2024): Mathematics Tutor (Years 6–9, online).
Federal University of Catalão (2019–2021): Substitute Lecturer (Calculus, Statistics).
Pontifical Catholic University of Goiás (2014–2019): Lecturer (Algebra, Calculus, Geometry, Differential Equations, Statistics).