

João Eduardo Reis

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](#) Repository: [GitHub](#) Details: [Project Page](#)

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.)

App: [Streamlit App](#) Repository: [GitHub](#) Details: [Project Page](#)

Lead Conversion Prediction. Developed a model to identify leads most likely to convert into paying customers. (Logistic Regression, Random Forest, Gradient Boosting.) Details: [Project Page](#)

Customer Personality Segmentation. Performed customer segmentation based on purchasing behaviour and demographic traits. (K-Means, Agglomerative Clustering, Gaussian Mixture Models.) Details: [Project Page](#)

Education & Certifications

Massachusetts Institute of Technology (MIT), IDSS (2025):

Data Science and Machine Learning: Making Data-Driven Decisions. [View 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 Courses: [View 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. [Publication Link](#)

Mentoring: Supervised a final-year undergraduate thesis. [Thesis PDF](#)

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).