

## 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](#) 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).