

# Ana Beatriz Macedo

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## EDUCATION

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### PONTIFICAL CATHOLIC UNIVERSITY OF SÃO PAULO

*Bachelor's degree in Data Science and Artificial Intelligence; GPA: 3.84 (9.6/10)*

São Paulo, SP, Brazil

*Mar 2021 - Aug 2024*

## PROFESSIONAL EXPERIENCE

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### ITAÚ UNIBANCO

Bank

São Paulo, SP, Brazil

*Dec 2023-Apr 2025*

#### *Data Scientist*

- Developed and implemented Machine Learning, Deep Learning, and Generative AI models to enhance audit processes, detect anomalies, optimize operations, and improve risk assessment within the bank.
  - **Branch Occupancy Detection and Anomaly Analysis:** Developed a PyTorch model to detect overcrowding in bank branches. Identified anomalies in 40% of branches, of which 47% were impacted by customer migration from closed locations.
  - **AI-Powered Document Analysis and Automation System:** Designed a document processing system using NLP techniques such as PyTesseract, regex and OpenAI API to extract insights from 2,000+ documents in seconds, boosting audit efficiency with GenAI-powered analysis, saving 300+ hours of manual review.

#### *Data Science Intern*

*Feb 2022-Dec 2023*

- Designed a machine learning model for advanced fraud detection and prevention of potential frauds resulting in savings of up to 125k in potential losses;

### TWELVE FOOTBALL

Sports Business Consulting

Stockholm, Sweden

*Nov 2024-Mar 2025*

#### *Data Scientist*

- Applied Prompt Engineering to assist in building artificial intelligence agents specialized in football match and season analysis based on the LLM of OpenAI API;

### ORLANDO CITY SC

Football Club

Orlando, FL, USA

*Aug 2023-Dec 2023*

#### *Data Science Intern*

- Constructed Machine Learning models to analyze and uncover the key factors influencing player performance and created dashboards in Tableau for data-driven decision-making in scouting;

### TOTAL FOOTBALL ANALYSIS

Sports Business Consulting

Lokeren, Belgium

*Oct 2022-Oct 2023*

#### *Football Data Analyst Intern*

- Developed interactive data visualizations and analyzed match statistics to support football scouting and tactical assessments;

## ACADEMIC EXPERIENCE

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### CENTER FOR SPORTS ANALYTICS AT SAMFORD UNIVERSITY

Sports Analytics Research Academic Center

Homewood, AL, USA

*May 2022-Sep 2023*

#### *Sports Analytics Intern*

- Conducted research and wrote articles about the Premier League and the NBA;

## SKILLS

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**Languages:** Portuguese (Native), English (C2), Spanish (A2), and German (A1).

**Programming:** Python (PyTorch, Scikit-learn, Numpy, Pandas, NLtk, Networkx, Streamlit, OpenAI), SQL, and R.

**Softwares:** AWS Sagemaker Studio, Tableau, Alteryx, and Office 365.