

Bruna G. Medeiros

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SUMMARY

Data Science graduate student pursuing an MS in Applied Data Science at the University of Chicago to develop expertise in ML/AI modeling. A determined problem-solver and effective team player, eager to apply data-driven insights to support impactful business decisions across industries.

EDUCATION

The University of Chicago | Chicago, IL | MS Applied Data Science | *GPA: 3.97* Expected: December 2025

- Coursework: Time Series, Machine Learning I & II, Statistical Modeling, Data Science for Marketing, NLP, Machine Learning Operations, Generative AI

Babson College | Wellesley, MA | BS in Business Administration | Graduated *Cum Laude* 2019 – 2023

- Dean's List: Spring 2021, Fall 2021, Spring 2022, Fall 2022, Spring 2023
- Coursework: Business Analytics, Linear Algebra, Financial Modeling (M&A, LBO, DCF), FinTech, Options & Futures

ACADEMIC PROJECTS

Capstone Project – University of Chicago – Ongoing

Enhancing Quality and Efficiency in Clinical Decision Support: A Multi-Agent, Reinforcement Learning Framework for Multimodal Medical Imaging and Text Retrieval

- Proposed a multi-agent AI System leveraging reinforcement learning alongside a centralized multimodal vector store to deliver dynamic, accurate, and timely clinical decision support.
- Utilized a multimodal dataset from Uchicago Medicine resources, including clinical research papers, medical textbooks, and institutional documentation.

Sentiment Analysis on AI Impact per Industry (Python)

- Worked on 200,000 rows of uncleaned scrapped news articles to discover industry sentiment regarding AI adoption.
- Performed topic modeling, ENR modeling and sentiment analysis on unlabeled data.

Global Power Plant Database Analysis (SQL, Excel, Tableau)

- Joined, normalized, and cleaned three disparate datasets across unique identifier values into a five table star-schema that optimized query efficiency and interpretability for the end user.

K-Means on E-Commerce Sales Data (Python: Kmeans, Matplotlib)

- Implemented customer segmentation using K-Means clustering on e-commerce sales data to identify distinct purchasing behaviors and optimize marketing strategies.

SKILLS & CERTIFICATION

- *Programming:* Python (Pandas, NumPy, Matplotlib, Scikit-Learn, Seaborn, NLTK, PyTorch, Transformers), R, SQL
- *ML/DL/AI:* Regression, Classification, Time Series, NLP, RAG, Embedding Fine-Tuning
- *Analytics & Visualization:* Microsoft Excel, Microsoft PowerPoint, Tableau, Power BI
- *ML Operations/Data Engineering:* Version Control (DVC, LakeFS), Containerization (Docker), Platforms (Databricks, GCP), Databases (MongoDB, Neo4j), Data Cleaning (OpenRefine)

EXPERIENCE

Bradesco Bank | Miami, FL

Banking Analyst

July 2023 – May 2024

- Redesigned TD/CD purchase flow, impacting 50 banking, operation, and finance employees by aligning processes, improving communication, and operational efficiency.
- Created metric decks highlighting growth in AUM to guide senior level investment strategy for consumer banking division.
- Digitized CD product offerings, eliminating redundancies and empowering leadership to strategize product optimization.

BTG Pactual | São Paulo, Brazil

Intern, Macroeconomic Research Department

June 2022 – August 2022

- Conducted independent research on the economic impact of India's monsoon season and the global effects of Ukraine's gas crisis on energy prices, providing insights for informed decision-making.
- Assembled economic data from sources like Refinitiv, World Bank, Central Bank databases and OECD, into presentations, highlighting key trends such as GDP and inflation for senior economist discussions.