

Julian Benitez Mages

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EDUCATION

Northeastern University – Khoury College of Computer Sciences | Boston, MA Expected: **May 2025**

Candidate for a Master of Science in Data Science

Machine Learning | Data Mining | Natural Language Processing | Network Science | Artificial Intelligence

Northeastern University – Khoury College of Computer Sciences | Boston, MA **2024**

Bachelor of Science in Data Science & Business Administration

GPA: 3.5/4.0 | Concentration in Social Innovation & Entrepreneurship | PlusOne Accelerated Masters' Program

CERTIFICATIONS & TECHNICAL SKILLS

- **Languages:** Python, R, SQL, GraphQL, HTML, CSS, JavaScript, C++
- **Libraries:** TensorFlow, PyTorch, Keras, Vader, TextBlob, Matplotlib, Seaborn, Pandas, NumPy
- **Software:** PyCharm, Jupyter, Tableau, GitHub, RStudio, SQL Server, MongoDB, neo4j, Excel, PowerPoint

WORK EXPERIENCE

Kaggle August 2024 - Present

KaggleX Fellow

- Accepted as one of 100 fellows amongst 3,000 applicants in Kaggle's AI & ML BIPOC-oriented fellowship
- During the 15-week program, fellows will develop an LLM-based application using Gemma for fine tuning
- KaggleX Fellows receive access to Google's resources and one-on-one mentoring from AI/ML professionals

Northeastern University - Khoury College of Computer Sciences January 2022 – April 2024

Undergraduate Teaching Assistant

Boston, MA

- **Spring '24:** DS 3500 - *Advanced Programming with Data* - **Spring '22:** DS 2500 - *Intermediate Programming with Data*
- Host weekly office hour sessions to assist students with coursework such as dashboarding and modelling
- Grade 30+ students' homework and projects including machine learning and objected oriented programming

Morgan Stanley / Parametric July 2023 – December 2023

Quantitative Research Co-Op

New York, NY

- Build and managed email professionalization program utilizing LLMs to provide scalability to client service team
- Automated 3-hour process with Python script to approve and classify tax-loss trades for Fixed Income accounts
- Built automated interactive dashboards to track time until first trade by client account and credit analyst notes
- Interviewed and evaluated 20 candidates for subsequent co-op position, emphasizing balance in skillset

Wellington Management Company July 2022 – April 2023

Investment Platform Technology Co-Op

Boston, MA

- Supported Multi-Asset portfolio management team with investment performance dashboards in Tableau
- Integrated normalized database schema to maximize dashboard performance for scalability and expansion
- Built ETL pipelines in Tableau Prep software to integrate Python scripts for data querying

PROJECTS

- **LLM-Based Email Professionalism Program – Pair Programming** Fall 2023
 - Written in Python to evaluate professionalism in client service correspondence to assess performance
 - Additional capability to add professionalism to emails using local LLM and custom prompt scripts
 - AI-Generated mail evaluated through expert systems algorithm based on metrics of professionalism
- **Supervised Machine Learning Research Projects – Individual** Spring 2023
 - Derived and compared traditional and stochastic gradient descent methods by MSE & Huber Loss
 - Evaluated Neural Networks by architecture and accuracy using Keras and ggplot in R programming

INTERESTS & ACTIVITIES

Exploring the Outdoors; Travel; Reading; Guitar; Urban Design; Philosophy; Neuroscience; Music Industry