

ALEXANDRA LUGO

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Summary

Data Science student at New York University graduating May 2026, with hands-on experience in AI model training, data analytics, and machine learning. Proficient in Python, SQL, Tableau, PowerBI, and cloud computing platforms, with a Google Data Analytics certification. Demonstrated expertise through enterprise data governance projects at Sallie Mae and innovative AI development initiatives. Strong analytical and programming skills leveraged to support data-driven decision-making within dynamic teams.

Education

New York University

Data Science, Business Studies

Aug 2022 - May 2026

New York, New York

- **GPA:** 3.6

Work Experience

Sallie Mae

Data Analyst Intern

May 2025 - Present

Indianapolis, Indiana

- Supported the implementation of enterprise data governance and analytics initiatives within the Chief Data Office.
- Worked cross-functionally to enhance metadata accuracy in Alation (data catalog), improve data quality processes, and drive adoption of business intelligence tools.
- Assisted with stakeholder communications, API integrations using Python, and governance roadmap rollout tasks to strengthen data accessibility, compliance, and decision-making across the organization.

Outlier.ai

AI Model Training Analyst

Mar 2024 - Dec 2024

- Evaluated and scored AI responses for accuracy, relevance, and edge case handling, contributing to the AI training improvement loop and identifying key areas for enhancement, leading to more effective AI models

NYU Athletics

Varsity Athletics Special Events and Ticketing Assistant

Oct 2023 - Present

- Generated and analyzed reports on sales, attendance, and revenue to identify trends and improvement opportunities, enhancing event operations efficiency and customer service by promptly addressing fan inquiries and issues.

Witkoff Group

Intern

May 2023 - Jul 2023

Miami, FL

- Authored procedural and technical documentation, managed data in spreadsheets and Northspyre, and developed operational and competitive analysis reports to improve efficiency and support strategic decision-making in real estate development and investment.

Projects

Regional Music DNA

Jun 2025 - Aug 2025

- Analyzed regional music preferences across major US cities by processing Spotify audio features and US Census demographic data to identify geographic patterns in musical taste
- Built data pipeline integrating Spotify Web API, Last.fm API, and Census Bureau data to collect and process streaming trends and audio characteristics
- Investigated correlations between local demographics, cultural history, and musical preferences to map "musical borders" that transcend political boundaries

Image Classifier

AWS Scholarship

Dec 2024 - Feb 2025

- Developed an image classification model using transfer learning (ResNet18 & VGG13) to classify 102 species of flowers with over 60% accuracy.
- Implemented image preprocessing, data augmentation, and GPU acceleration to optimize training performance and generalization.
- Built CLI-based scripts (train.py, predict.py) for training, inference, and model checkpointing, supporting hyperparameter tuning and real-time class predictions.

Principles of Data Science Capstone

Nov 2024 - Dec 2024

NYU Principles of Data Science Class

- Performed data wrangling, exploratory data analysis (EDA), and machine learning model development.
- Utilized Python (Pandas, Scikit-Learn, Matplotlib) to analyze patterns and derive actionable insights.
- Conducted an end-to-end data science project as part of the Principles of Data Science course.

Altristotle - Customized Large Language Model (LLM) for Student Learning

Jun 2024 - Aug 2024

- Developed Altristotle, a customized LLM designed to help students learn better by improving their critical thinking and problem-solving skills. Instead of providing direct answers, Altristotle asks guiding questions, allowing students to find solutions independently.
- Created during a six-week program led by SureStart in partnership with MIT's RAISE, this project was part of the Create-a-Thon competition and targeted students in underfunded schools.
- The project included backend development using Ollama and a WebUI interface, with local deployment on GPU-supported environments for efficient real-time interactions.

Skills

- **Skills:** analytical thinking, excellent verbal and written communication, detail-oriented, adaptability, commitment to continuous learning, fluent in English, fluent in Spanish, basic Mandarin proficiency
- **Programming Languages:** Python, Java, R, SQL, Snowflake
- **Tools:** Tableau, AWS, Google Cloud, Data Visualization, PowerBI, Artificial Intelligence, Sci-kit Learn, Deep Learning, Machine Learning, Data Science, Alation