

# 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*

- GPA: 3.6

**Aug 2022 - May 2026**

*New York, New York*

## Work Experience

### Sallie Mae

*Data Analyst Intern*

- 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.

**May 2025 - Present**

*Indianapolis, Indiana*

### Outlier.ai

*AI Model Training Analyst*

- 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

**Mar 2024 - Dec 2024**

### NYU Athletics

*Varsity Athletics Special Events and Ticketing Assistant*

- 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.

**Oct 2023 - Present**

### Witkoff Group

*Intern*

- 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.

**May 2023 - Jul 2023**

*Miami, FL*

## Projects

### Regional Music DNA

- 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

**Jun 2025 - Aug 2025**

### Image Classifier

*AWS Scholarship*

- 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.

**Dec 2024 - Feb 2025**

### Principles of Data Science Capstone

*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.

**Nov 2024 - Dec 2024**

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

- 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.

**Jun 2024 - Aug 2024**

## 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