

LINDSAY AIELLO

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PROFESSIONAL SUMMARY

Analytical and self-motivated Data Science graduate with advanced proficiency in **Python, SQL, Tableau, Pandas, NumPy, statistical modeling, data visualization, and predictive analytics**. Skilled in **transforming complex datasets into actionable insights** that drive strategic, data-informed decision-making. Currently expanding expertise in **Databricks, AWS, NLP, and modern data engineering workflows** to tackle real-world, regulated-data challenges. Solid foundation in **HIPAA compliance, data governance, and data security best practices**, ensuring responsible handling of sensitive information. Adept at **cleaning, analyzing, and modeling data** to solve business problems, deliver measurable outcomes, and support decision-making. Collaborative communicator experienced in **teaching, mentoring, cross-functional teamwork**, and presenting technical insights to both technical and non-technical audiences.

SKILLS & TECHNOLOGIES

- **Programming & Languages:** SQL, Python, R
- **Databases:** PostgreSQL, MySQL
- **Data Science & Analytics:** Machine Learning, Predictive Modeling, Statistical Analysis, Data Visualization, Data Cleaning
- **Cloud & Data Platforms:** Databricks (in progress), AWS
- **Business Intelligence Tools:** Tableau, Dashboard Development, Reporting Automation, HubSpot
- **Spreadsheets:** Microsoft Excel, Google Sheets
- **Tools & Frameworks:** Jupyter Notebooks, scikit-learn, Salesforce, Asana, Checkpoint, Statistical Modeling
- **Professional Skills:** Project management, Cross-Functional Collaboration, Data-Driven Decision Support

EDUCATION

Master of Science in Data Science, GPA: 4.00

Eastern University – Graduated: March 2025

Bachelor of Arts in Psychology

SUNY New Paltz - Graduated: 2008

PROJECTS

1. **What Makes a Hit Song? (SQL + Python)**
 - **Engineered** a two-part data science project utilizing SQL for complex data retrieval and Python (Pandas) for cleansing and exploratory data analysis to analyze music trends.
 - **Identified** statistical correlations between key music features (e.g., *danceability, valence, energy*) and commercial success, providing predictive insights into high-performing songs.
2. **End-to-End Machine Learning Model**
 - **Developed** a complete, production-ready **Machine Learning model** solution, managing the entire lifecycle from raw data processing to final evaluation.
 - **Executed** data cleaning, feature selection, model training, and performance metrics using core scientific libraries, including **NumPy, Pandas, and Scikit-learn**.
3. **Student Behavior Analysis in Python**
 - **Investigated** the correlation between student behavioral factors (e.g., commute time, study hours, social media use) and academic performance using comprehensive data analysis in **Python**.
 - **Delivered** evidence-based insights quantifying the impact of non-academic factors on student success for potential institutional strategy development.
4. **Statistical Engagement Analysis in Excel**
 - **Conducted** rigorous statistical analysis, including **hypothesis testing** (e.g. t-tests) and **confidence intervals**, to compare user engagement across free versus paid subscription tiers.

- **Informed** product strategy by quantifying the significant difference in user activity and identifying opportunities to convert free users based on statistical evidence.
- 5. [Worldwide Earthquake Tracker](#)
- **Designed** and **built** an interactive data dashboard to visualize global seismic activity, allowing users to track earthquakes by date, frequency, and magnitude.
- **Streamlined** complex geological data into a user-friendly interface to enhance accessibility and public understanding of worldwide earthquake patterns.

PROFESSIONAL EXPERIENCE

Graduate Assistant: Foundations of ML Models + Editor for Data Analysis in R

Eastern University | Remote | 07/2024 – Present

- **Instructed students** on core machine learning concepts and practical application, utilizing email to provide dedicated support and problem-solving assistance.
- **Collaborated with professors** and assistants to design and deliver an effective and high-quality remote learning experience for students that increased student satisfaction and engagement.
- **Elevated students' coding proficiency** by thoroughly reviewing programming assignments and providing targeted troubleshooting guidance and constructive feedback.
- **Enhanced student engagement** and content flow by professionally editing and optimizing instructional videos for professors.
- **Evaluated and graded complex final end-to-end machine learning projects**, ensuring rigorous academic standards.

Medical Billing Specialist

AKC Medical | Remote | 06/2023 – Present

- **Optimized organizational efficiency** by 70% by leveraging Microsoft Excel to generate comprehensive reports on operational performance.
- **Identified a critical staffing error** that caused a company deficit, subsequently communicating and executing step-based actions to resolve the issue and stabilize claim payments.
- **Processed medical claims** with 100% accuracy, ensuring strict compliance with current medical coding standards and professional provider qualifications.
- **Resolved claim denials** by identifying root causes, communicating directly with insurance carriers, and successfully correcting errors.
- **Reduced historical errors** by proactively identifying and resolving underlying process issues left by previous employees.

Data Analyst/Survey Programmer

Wakefield Research | Remote | 10/2024 – 12/2024

- **Achieved a promotion** within one month based on demonstrated strong technical skills and an accelerated learning curve.
- **Programmed custom surveys** for high-profile clients, strictly ensuring logical accuracy and a seamless user experience.
- **Analyzed quantitative survey data** to uncover critical market trends and deliver actionable insights for strategic client decisions.
- **Executed statistical tests** (T-tests, Z-tests) to assess and interpret significant differences in audience behavior.
- **Cleaned and standardized raw data** to guarantee accurate statistical analysis and reliable data visualizations.
- **Led troubleshooting efforts** across survey platforms to significantly improve the speed and reliability of project execution.
- **Managed timelines** for concurrent survey deployments, successfully delivering high-quality results under tight deadlines.

Junior Research Analyst

- Conducted 100% quality control of all data to ensure the highest level of accuracy in client deliverables.
 - Collaborated cross-functionally with research, design, and programming teams to seamlessly support project execution.
 - Researched brand voice and customer segments to strategically tailor messaging and refine survey language.
 - Assisted in initial data cleaning and exploratory data analysis to prepare data for advanced analysis.
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Freelance & Contract Copywriter & Blogger

The Hoth & Self-Employed | Remote | 06/2019 – 9/2023

- Delivered client-ready, SEO-optimized content across diverse industries, including digital marketing and psychology.
 - Selected by The HOTH as an All-Star Writer (top-tier among 100+ writers) for consistently high quality and exceptional client satisfaction.
 - Conducted in-depth research to write authoritative articles tailored precisely to each client's audience and brand tone.
 - Proofread and self-edited all content for clarity, grammatical precision, and maximum engagement.
 - Developed compelling headlines and strategic content structures to increase click-through rates and overall readability.
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PROFESSIONAL DEVELOPMENT

- HubSpot Marketing Hub Certification - HubSpot
- Foundations of Project Management - Google
- Starting a Successful Project - Google
- Running the Project - Google
- Course creator (Blogging & Content Writing) – Udemy
- Additional coursework in Digital Marketing, Python, & Data Science – Udemy