

# Milena Agudelo

## EDUCATION

**SUNY Stony Brook, Stony Brook, NY**

*B.S. Respiratory Care*

**The University of Texas at Dallas, Richardson, TX**

*M.S. Business Analytics; Data Science*

*Professional Certificate in Applied Machine Learning*

## CONTACT

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## PROFESSIONAL SUMMARY

Data Analyst and Product Owner with 8+ years of experience delivering AI-powered, data-driven solutions across defense and healthcare domains. Proven ability to lead cross-functional teams, develop predictive models, and translate insights into strategic action. Skilled in Python, R, SQL, Tableau, and AWS, with a strong foundation in machine learning, automation, and stakeholder engagement. Experienced in Sustainment analytics and HR/People Analytics initiatives. Bilingual in English and Spanish

## TECHNICAL SKILLS

**Languages & Tools:** Python, R, SQL, STATA, Tableau, Power BI, AWS, GitLab, Docker, SAP, EHR, SAS, Alteryx, VBA, MS Office, Automation Anywhere, Power Automate

**Techniques & Models:** NLP, neural networks, decision trees, clustering, XGBoost, time series, hypothesis testing, GLMs, PCA, predictive modeling, A/B testing

**Frameworks:** Agile, Scrum, UI/UX design, stakeholder engagement, data storytelling

## EXPERIENCE

### **Sr. Data Analyst | Product Owner**

Digital Sustainment Analytics,

Lockheed Martin Aeronautics | Fort Worth, TX

*Feb 2024 – Present*

- Led the development of the Part Compatibility Tool, a Python-based application using engineering and logistics data to assess part interchangeability across aircraft. The tool supports more accurate sustainment planning and cost-efficient decision-making, serving as a foundational capability for future fleet management solutions.
- Served as a developer on the Enhanced Unit Level Tracking (EULT) tool, contributing to backend data processing using SAS and Python to analyze unit-level part costs and usage for the F-35 program. Helped design user-facing Tableau dashboards that improved visibility into sustainment cost drivers.
- Partnered with cross-functional stakeholders to translate technical solutions into user-centric documentation, improving usability and adoption, including the creation of customer requested documentation of supply chain statistical modeling and machine learning techniques utilized by the LM Digital Sustainment Analytics group.
- Applied Agile practices to manage team priorities, deliver iterative product enhancements, and ensure alignment with sustainment program goals, ensured alignment with internal LM goals and external partner needs” explicitly highlights your ability to balance both internal and external demands.
- Advocated for scalable analytics workflows, supporting automation and operational decision-making through clean, accessible data products.

### **Data Analyst | Scrum Master**

Digital Sustainment Analytics,

Lockheed Martin Aeronautics | Fort Worth, TX

*Jul 2023 – Feb 2024*

- Established and led new Agile teams, serving as Scrum Master for two groups to ensure timely product delivery and team alignment.
- Implemented capacity and resource planning strategies to optimize productivity and prevent burnout.
- Onboarded new team members and ramped up productivity through structured training programs.
- Resolved development impediments, enabling continued team progress and meeting of project milestones.

## Data Analyst

People Analytics and Technology

Lockheed Martin Aeronautics | Fort Worth, TX

May 2022 – Aug 2022

- Improved Headcount, Attrition, and Movement Dashboard using Agile principles, enhancing HR decision-making efficiency.
- Proposed and piloted Net Promoter Score and Quality of Hire metrics to assess hiring outcomes and leadership effectiveness.
- Applied decision trees and R to explore attrition trends by educational background and local variables.
- Transformed legacy NLP code to classify 1,673 survey responses, automating manual analysis and reducing team workload.
- Led UI/UX redesign of the offboarding interface, saving 4–8 hours of labor per offboarding and reducing financial leakage.

## Process Improvement Analyst | RT

Baylor Scott & White Orthopedic and Spine Hospital | Arlington, TX

Jul 2020 – Apr 2022

- Reduced post-operative pneumonia via a custom intervention plan informed by analytics on hospital performance.
- Created compliance improvement programs that increased education metrics by 60% and reduced readmissions by 80%.
- Designed and presented dashboards for quarterly reviews to support strategic decisions.
- Translated medical data into patient-friendly insights, boosting treatment compliance by 40%.

## Respiratory Therapist / Business Analyst

Various Hospitals

2010 – 2020

- Developed EMR-based dashboards and analytics tools to enhance patient care and operational performance.
- Implemented VBA-based solutions to track and improve patient compliance and hospital workflows.
- Delivered ongoing training and onboarding to improve care quality and team performance.
- Received multiple awards for service excellence and patient-focused outcomes.

## COURSEWORK

Business Analytics with R, Database Foundations, Advanced Stats, Econometrics, Time Series, Data Visualization, Predictive Analytics, Prescriptive Analytics, ML, NLP, RPA

## CERTIFICATIONS & ACHIEVEMENTS

AI Fundamentals Practitioner Badge	December 2023	Alteryx Fundamental Micro -Credential	January 2023
AWS Certified Machine Learning Specialty	May 2022	Google IT Competition – 3 <sup>rd</sup> Place	April 2021
Trusted Medical Competition – 1 <sup>st</sup> Place	March 2021	Data Science & Project Management Clubs, UT Dallas	Aug 2020 – May 2023
Phi Kappa Phi National Honor Society	November 2022	Beta Gamma Sigma Business Honor Society	April 2023

## ADDITIONAL INFORMATION

**Languages:** English (Fluent), Spanish (Fluent)

**Citizenship:** U.S. Citizen

**Clearance:** Secret