

Annette Gisella

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EDUCATION

Georgia Institute of Technology , Atlanta, GA	Dec 2025
Master of Science in Analytics	GPA: 4.00/4.00
Analytical Tools & Business Analytics Track	
Georgia Institute of Technology , Atlanta, GA	May 2024
Bachelor of Science in Industrial Engineering Minor in Computing and Intelligence	GPA: 4.00/4.00
2024 Alpha Pi Mu Academic Excellence Awardee	

SKILLS

- Programming Languages:** Python (NumPy, Pandas, Scikit-learn), R, SQL, Java, C
- Optimization & Simulation:** Gurobi, CPLEX OPL, Simio, SimPy, PuLP
- Data Visualization:** Matplotlib, Plotly, Tableau, ggplot2, D3.js
- Data Analysis:** Regression Analysis (Linear, Logistic, ARIMA), Clustering (K-means, Hierarchical, DBSCAN), Hypothesis Testing, Neural Networks, SVM, KNN, PCA
- Other Skills:** Microsoft Excel, WordPress, HTML, LaTeX, Lean Six Sigma Green Belt, Adobe Photoshop

EXPERIENCE

Research Assistant – Socially Optimal Transportation and Logistics	Jan 2024 – May 2025
Georgia Institute of Technology Atlanta, GA	
<ul style="list-style-type: none">Managed two project teams, leading regular check-ins and driving timely progress toward objectivesApplied data analysis and hypothesis testing in R to quantify the effect of cognitive biases on adoption of sidewalk autonomous delivery robotsAutomated input variation and results compilation for disaster relief logistics optimization models in Python and Gurobi, reducing setup and post-processing time by 75%Awarded the Minority Issues Forum Scholarship to attend INFORMS, learning from and interacting with experts in the field	
Undergraduate Teaching Assistant – Stochastic Systems, Linear Programming	May 2022 – Dec 2023
Georgia Institute of Technology Atlanta, GA	
<ul style="list-style-type: none">Recognized as the 2023 Undergraduate TA of the Year in Industrial Engineering, selected from over 30 TAsOrganized weekly homework assignments, led exam review sessions, and delivered graded feedback for a total of 137 studentsCommunicated course concepts clearly and effectively to students, resulting in a 93% student satisfaction rate	

PROJECTS

Predictive Insights for Work Order Compliance	Aug 2025 – Dec 2025
Enterprise AI Consulting Firm Atlanta, GA	
<ul style="list-style-type: none">Built and evaluated Python-based models for early detection of work-order compliance risk, comparing logistic regression and XGBoost with feature selection, hyperparameter tuning, and interpretationTransformed and merged 20K+ work orders, conducting correlation analysis to uncover compliance patternsUncovered vendor-driven compliance risks and communicated evidence-based recommendations to strengthen vendor process controls	
Real-Time Outage Detection using Customer Interactions	Jan 2025 – Jan 2025
Cox Communications Atlanta, GA	
<ul style="list-style-type: none">Collaborated with three teammates to achieve 3rd place in a two-week datathon by detecting periods of unusually high customer interaction using seasonal trend decomposition (LOESS) and isolation forestsPerformed exploratory data analysis and cleaning on two datasets totaling over 11 million recordsAssisted in training and testing a random forest model to predict outages in real time with 92% accuracy	
Inventory Optimization Consulting (Capstone Project)	Jan 2024 – May 2024
Georgia Power GRID Investment Program Atlanta, GA	
<ul style="list-style-type: none">Led development of a Python application to detect inventory inefficiencies and data discrepancies, revealing \$800K in underutilized assets and enabling improved decision-makingContributed to a logistic regression model predicting over-purchased SKUs, achieving 95% accuracy and 92% precisionDesigned, built, and validated a simulation-based optimization model to formulate and test inventory purchasing strategies, demonstrating a simulated 75% reduction in excess inventoryTeam selected as Best Senior Design Project of Spring 2024 for innovation and technical execution	