SARIYAH AMÉLIE SINTAYEHU

Charlottesville, VA | 434-466-0855 | sariyah@sintayehu.me | linkedin.com/in/sariyahsintayehu

Senior mathematics and statistics major with experience in statistical modeling, machine learning, and R- and SQL-based data analytics. Seeking entry-level data, actuarial, or statistical analyst roles.

TECHNICAL SKILLS

Programming: R; Python; SQL; C++
Machine Learning: Linear Regression; Logistic Regression; Random Forests; Gradient Descent; Cross-Validation
Statistics: Hypothesis Testing; ANOVA; Nonparametric Methods; Regression
SQL: SQLite; PostgreSQL; DuckDB; Joins; Aggregations; Subqueries; Views
Tools: Git and GitHub; LaTeX; R Markdown and Quarto; Jupyter; GNU Make; `tidyverse`; `dplyr`; `ggplot2`; `tidyr`

EDUCATION

Kenyon College — Gambier, OH
BA in Mathematics and Statistics (Focus: Statistics) Aug 2022 – May 2026
GPA: 3.55 | Honors: Distinction in Senior Capstone, President's Scholarship (merit-based)
London School of Economics and Political Science — London, UK
General Course Program (full-time study abroad in quantitative coursework) Sep 2024 – Jun 2025
Relevant Coursework: Bayesian Inference; Data Analysis; Data Structures; Linear Algebra; Machine Learning; Nonparametric Statistics; Probability, Distribution Theory and Inference

PROJECTS

Brazilian E-Commerce Analytics Pipeline | SQL, R, Make Jan 2026 – Present
- Built a DuckDB star-schema warehouse from 500K+ rows for KPI reporting and end-to-end business analytics
- Cleaned and standardized messy e-commerce data; engineered features for CLTV, delivery delays, and seller metrics
- Developed modular SQL scripts and reproducible analytics workflows integrated with R and Quarto reporting

Clinical Risk Modeling for Coronary Artery Disease | R, Machine Learning Dec 2024 – May 2025
- Implemented a gradient descent logistic regression algorithm with L2 regularization with strong predictive results
- Trained and evaluated logistic regression, decision trees and random forest models for fast and low-cost screening
- Random forest model achieved 95% predictive accuracy only requiring a patient's heart rate and serum cholesterol

Sex-Based Morphometric Modeling of Antarctic Penguins | R, Statistics Jan 2024 – May 2024
- Analyzed morphometric, taxonomic and ecological features across 3 penguin species for predicting body mass
- Created prediction intervals for sex-based body mass differences and contributed to exploratory data analysis
- Achieved a 3.19% shrinkage metric from cross-validation confirming strong predictive accuracy

WORK EXPERIENCE

Kenyon College — Gambier, OH
Writing Center Tutor and Liaison Jan 2024 – May 2024 (resumed Aug 2025 – Present)
- Enhanced writing and revision skills for 50+ students across majors, improving clarity and academic performance
- Appointed liaison by the Elements of Statistics professor to support students in statistical writing and interpretation
- Coordinated 40+ appointments and contributed feedback to 200+ pages of student work

Grader for Elements of Statistics Course Aug 2023 – Dec 2023
- Communicated with the course professor to address common errors and plagiarism, adhering to Kenyon's policies
- Standardized grading practices with the other section's grader and faculty to maintain equal assessment
- Automated personalized feedback generation with Python, reducing time grading by 40% while improving quality

LEADERSHIP AND ORGANIZATIONAL INVOLVEMENT

Member, Technology and AI Club — Kenyon College Jan 2026 – Present
Member, Black Student Union — Kenyon College Aug 2023 – Present
Co-Founder and Vice President, American Sign Language Club — Kenyon College Aug 2023 – May 2024
Secretary, Black Student Union — Kenyon College Aug 2023 – May 2024