

Essete Tsahai

Data Scientist

With a background in biostatistics and training in data science, which have equipped me with statistical and analytical skills, I am excited to continue my journey in the data world where I get to apply those skills to bring solutions to complex problems.

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Skills

- Python (Pandas, Seaborn, GeoPandas, StatsModels, ETL)
- R (Tidyverse, Plotly, Shiny)
- SQL
- Tableau
- Git/GitHub

Education

Nashville Software School
Data Science Apprentice

Middle Tennessee State University
Master of Science, Biostatistics

Middle Tennessee State University
Bachelor of Science, Biology

Projects

[Analysis of Trends in College Enrollment](#)

- Analyzed data and created interactive [R Shiny dashboard](#) for U.S. Colleges and explored trends in admissions, enrollment and retention.

[Vanderbilt ACCRE Project](#)

- Analyzed data on GPU computing jobs using Python to identify optimization opportunities and providing recommendations for resource allocation.

[Davidson County LIHTC Project](#)

- Utilized R to develop and analyze statistical models examining the [impact of LIHTC developments on housing prices](#) in Davidson County.

[Hop Teaming Analysis](#)

- Utilized Python, SQLite and Neo4j to [identify trends and communities](#) for patient referrals to major hospitals in Nashville.

Work Experience

Sep. 2022 – Present

Data Scientist Apprentice | Nashville Software School

Intensive part-time bootcamp focusing on data science fundamentals and problem solving. Used real-world datasets and included projects where findings were presented to stakeholders from the community.

- Wrangled data and performed exploratory data analysis using Python's pandas library and R's tidyverse packages
- Created data visualizations using matplotlib, seaborn, and ggplot2
- Performed geospatial analysis using geopandas and folium
- Gathered data through APIs and webscraping
- Retrieved and analyzed data using PostgreSQL and sqlalchemy
- Built and evaluated statistical and machine learning models using the scikit-learn and statsmodels libraries
- Applied natural language processing using the nltk and spaCy libraries
- Performed network analysis on graph data using Neo4j
- Built and deployed interactive data visualizations using the R Shiny library
- Source code version control with Git/GitHub
- Project management/tracking with GitHub project boards and issue tracking
- Interacted with AWS using the CLI and ssh

Aug. 2021 – Present

Mathematics Lecturer | Middle Tennessee State University

- Designed and delivered engaging and effective lesson plans for Algebra and Statistics courses
- Monitored student progress through ongoing assessments and feedback
- Created supportive and challenging learning environment that encouraged critical thinking and problem-solving skills

Aug. 2020 – Aug. 2021

Data Analyst Intern | Middle Tennessee State University

- Performed data cleaning and wrangling using Microsoft Excel and Tableau Prep
- Combined and organized data from multiple sources for data analysis
- Designed, developed and maintained Tableau dashboards and reports to ensure high quality data visualizations
- Identify patterns and meaningful insights from data through qualitative and quantitative analysis
- Worked with departmental users to understand user needs and support reporting requirements

Aug. 2019 – May 2021

Graduate Teaching Assistant | Middle Tennessee State University

- Prepared materials, set up experiments and supervised biology student laboratory activities to ensure safe and effective learning environment
- Provided guidance and feedback to students, promoting independent inquiry and critical thinking
- Led review sessions to help students better understand course content and master laboratory techniques