

Aaron Tekle

EDUCATION

University of Maryland, College Park

Expected Graduation: May 2025

- Pursuing Bachelor's Degree in **Information Science** (Major)
- Specializing in **Data Science**

Montgomery College (Community College)

Graduation: 2023

- Associates Degree in **Information Systems/Science** (Major)
- Dean's List (**Fall 2022, Spring 2023**)

PROJECTS/ TECHNICAL EXPERIENCE

Languages/Technologies Used: Python, R, TensorFlow, Pandas, NumPy, Scikit-Learn, Matplotlib, Microsoft Office, Unity, UNIX/LINUX, Git, Visual Studio/VS Code, RStudio, PyCharm, GitHub, IntelliJ, Replit, Google Colab.

Body Language Decoder (ML Algorithms/Modeling, Computer Visualization)

- Developed Body Language Decoder, looking to decode human emotions and reactions
- Trained the Model on a Real-time "CSV" Dataset based on the coordinates of my own face
- Utilized Python, Computer Visualizations & Industry Standard ML Algorithms like Random Forests, Gradient Boosting + more to build the project.

BPL (Data Analysis, Data Cleaning, & ML Algorithms/Modeling)

- Analyzed BPL match data using Data Visualization, Machine Learning, and Clustering techniques.
- Utilized hyper-parameter tuning & ML Algorithms like Random Forests and Linear Regression to build the project.
- Utilized Python, Pandas, Sci-Kit Learn, + many more ML Libraries to build the project.

RELEVANT COURSEWORK

Coursework: Object-Oriented Programming (in Python), Statistics (in R), UNIX/LINUX System Admin, Systems Analysis and Design, Elements of Statistics, Intro to Programming, Java Programming Language, Computer Concepts, Pre-Calculus, Critical Reading, Writing, and Research, Intro to Game and Simulation.

PAPERS

Context Diagram Paper

- The paper focuses on the visualization of Context Diagrams and their practical applications in systems analysis and design.
- Visualized how context diagrams represent the relationships between a main system and its external entities

PERT/CPM Paper

- Visualized practical applications, providing insights into how they optimized project scheduling, resource allocation, + more.

WORK EXPERIENCE

Volunteer, HHS (HRSA) (Health Resources Services Administration)

- Improved operations by assisting with various entry-level tasks, using Microsoft Office, printers, & tools to help finish tasks.