Landrum Anderson

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SUMMARY

Highly motivated Mathematics student with practical experience in machine learning, data analysis, and optimization. Skilled in Python and advanced mathematical modeling, demonstrated through successful projects in speech classification, differential equations, and linear programming. Adept at collaborating in academic and professional environments, with proven leadership in tutoring and managerial roles. Committed to leveraging strong analytical and problem-solving abilities to drive innovative solutions and support organizational goals.

EDUCATION

Louisiana State University Shreveport (LSUS), Shreveport, LA   December 2025
Bachelor of Science in Mathematics | Minor in Computer Science

PROJECTS

Right Hemisphere Damage (RHD) Classification 2024
- Manually curated a dataset from TalkBank's RHD database
- Applied audio preprocessing, fastICA, and MFCC to extract features from healthy and afflicted individuals
- Successfully classified individuals using logistic regression, SVM, Random Tree, and kNN to the MFCC features using k-fold cross validation, with an accuracy of 0.76 and an AUC of 0.83 for the SVM model
- Accepted by IEEE to be presented at the i-ETC 2025 conference

Linear Programs 2025
- Modeled and optimized a diet with multiple foods and constraints by minimizing the cost function implemented in Python using the Gurobi library
- Modeled various game theory games and found optimal strategies utilizing Gurobi

Transmission Line Fault Location 2025
- Provided necessary theory behind differential equations and Laplace transforms
- Modeled transmission lines using multivariate differential equations and Kirchoff's Laws
- Utilized Laplace transforms to determine the location of a transmission line fault based on a short voltage pulse at the start of the line

WORK HISTORY

LSUS Department of Academic Success, Shreveport, LA   Spring 2023-Present
Tutor, Academic Specialist
- Tutor students across a wide range of subjects
- Lead guided study groups to facilitate collaborative learning

LSUS LAPrep Program, Shreveport, LA   Summer 2024
Program Assistant
- Assisted advanced middle schoolers in courses such as Python and algebraic structures

GRUB, Shreveport, LA   June 2020-May 2022
Assistant Manager
- Promoted from line cook to assistant manager in one year
- Managed employees during shifts, scheduled employee hours, and mediated customer complaints

AWARDS

Eagle Scout   February 2020
- Planned and implemented a large scale service project, including cost planning, fundraising, permits, labor, etc., to build storage cabinets and shelves for a local church

SKILLS

Python Packages/Libraries: NumPy, pandas, Matplotlib, TensorFlow, Gurobi

Other Competencies: Java, multivariate calculus and differential equations, mathematical modeling, linear programming, formal logic, discrete mathematics