

SILAS M. FALDE

(517) 539-1532 ◇ sfalde@umich.edu

EDUCATION

University of Michigan School of Engineering
Sophomore B.E.S. in Data Science, GPA: 3.12/4.00

Ann Arbor, MI
August 2023 – December 2026

Relevant Courses: Machine Learning, Regression Analysis, Probability and Statistics, Data Structures and Algorithms, Programming

- Michigan Data Science Team (MDST) – Member 2 years

Western High School
GPA: 3.963

Parma, MI
August 2019 – May 2023

- Men's Varsity Soccer – Captain 1 year, Member 2 years
- Select Choir – Member 3 years

RESEARCH

University of Michigan
Research Assistant

Ann Arbor, MI
September 2024 – Present

- Developing **Python** pipelines using a large language model (LLM) on a high performance computing cluster to extract trends from the narratives of victims of suicide.
- Cleaning, preprocessing, and feature engineering a confidential dataset of 400,000+ narratives.
- Applying **natural language processing** techniques to identify relevant cases and enhance the annotation process.
- Documenting findings with reports and visualizations both to communicate findings to the research team and the academic community through publication.

PROJECTS

Predicting Survival in the ICU
Project Developer

Ann Arbor, MI
January 2025 – March 2025

- Developed logistic regression and RNN models to predict survival of patients in the ICU using a public dataset using **Scikit-learn** and **PyTorch**.
- Performed data cleaning, preprocessing, and feature engineering to prepare the data for model training.
- Fine-tuned and evaluated the models using **cross-validation** and **grid search**.

WORK EXPERIENCE

Michigan Soccer Referee Association
Certified Grassroots Soccer Referee

Ann Arbor, MI
March 2022 – Present

- Officiating on a referee team to create a safe, fair, and fun environment for players, coaches, and spectators.
- Applying knowledge of the rules of soccer to facilitate the sport.

Center Lake Fitness
Groundskeeper

Jackson, MI
May 2023 – August 2023

- Mowed, trimmed, and landscaped the grounds to maintain a clean and safe environment for patrons.
- Conducted daily care for farm animals including feeding, cleaning, monitoring animal health, and maintaining facilities.

SKILLS

Programming	C++, Python, R, LaTeX
Python	PyTorch, Scikit-learn, NumPy, Pandas, Matplotlib
Software	Git, VS Code, Microsoft Office Suite, Google Suite