SAGE WALSH SMITH

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SKILLS

- Data analytics, Mathematical Modeling, Statistics, Python, SQL, R, Java, C, MATLAB, Racket, Excel, Git, GitHub, HTML
- Detail-oriented, strong communicator, collaborative, problem-solving, time management, quick learner, adaptable

EDUCATION

Western Washington University || Bellingham, WA   September 2019 - December 2024
B.S. Applied Mathematics

- **Relevant Coursework:** Data Structures and Algorithms, Probability and Statistics, Linear Algebra, Multivariable Calculus, Mathematical Modeling

PROJECTS

Handwritten Digit Recognition AI Neural Network
- Developed a full-stack AI web app featuring a neural network trained on the MNIST dataset using TensorFlow, with real-time inference and performance visualization
- Built and deployed an interactive frontend with JavaScript and Canvas API, integrated with a Flask backend to demonstrate end-to-end neural network deployment in a web environment

AI Stock Market Fortune Teller
- Created an interactive Python application that delivers real-time stock insights using Yahoo Finance API and Ollama LLM
- Introduced a novel gamified twist with TarotAPI, merging financial forecasting with creative storytelling

MATLAB Simulation of Surface Temperature Over Time for Convergence Analysis
- Simulated environmental temperature changes over time using MATLAB to investigate convergence behavior
- Gathered and synthesized data from multiple sources to support analysis and validation of results

Thought Atlas: An AI Rabbit Hole – AI-Powered Knowledge Mapping Web App
- Developed a browser-based tool that visualizes relationships between concepts by combining Ollama LLM, Wikipedia API, NetworkX, and D3.js
- Leveraged NLP and graph theory to enable intuitive, exploratory learning across disciplines

Age Prediction Using Exercise Data Analysis
- Built a predictive model in R to estimate gym members' age based on exercise metrics, applying linear algebra techniques and statistical analysis
- Visualized trends using real-world Kaggle data to explore potential correlations

Dress Up Game
- Designed and programmed a playful, full-stack web app allowing real-time avatar customization
- Managed frontend interactions with JavaScript and styled with HTML/CSS, while Flask powered asset management and state handling on the backend

WORK EXPERIENCE

Jimmy John's: *Delivery Driver*   January 2023 - April 2023
- Demonstrated punctuality and reliability in a fast-paced environment
- Managed transactions, including cash handling and point-of-sale systems
- Developed strong communication and interpersonal skills while interacting with customers