Sami Veliu

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EDUCATION

Michigan State University **Expected Graduation: April 2026**

Bachelor's of Science Computer Science | *Minor* in Business GPA: 3.85

LEADERSHIP

Spartan Food Security Council | **President** April 2024 - Present

- Partnered with Representative Jenn Hill and (MiLeap) Michigan Government Program to fundraise **$500,000** for four universities to propagate new institutional programs such as food banks, food pantries, and contracted EBT counselors to assist underprivileged students statewide.
- Introduce Bill #5097 (Hunger-free Campus Bill) into the House of Representatives to feed struggling students.
- Organize and Manage Student groups of over 100 people to facilitate large-scale volunteer work and partnerships.

PROJECTS

Machine Learning Diabetes Risk Analysis Tool (DRAT) January-March 2024

- Natural Language Processing model (NLP) to data-scrap patients' medical profiles. Uses tree-based classifiers to determine risk factors based on 10+ scientific markers of increased diabetes risk(ie: Triglycerides Level, Age, and Number of Pregnancies).
- Utilize a PostgreSQL database to store data, adapted through Python using psychopg2 API to train AI models based upon data set.
- **82%** accuracy rate in detecting elevated risk of developing diabetes.

Expense Tracking System ($125,000 in real-world Application) - In progress June-Present 2024

- Implemented Django to create RESTful routes for **secure user authentication** and project management, and connected front-end HTTP requests to the backend using Django. Utilized HTML, CSS, Python, and Django for a user-friendly program. PostgreSQL to store data for user spending and projects.
- Admin-focused Expense Tracking system (ETS) to manage spending and budget reports for custom projects within an organization.
- **$125,000** is tracked to monitor the spending/allocation of resources to feed our local East Lansing Students who don't have access to quality food resources.

Real-Time AI Automotive Sensor Monitoring Tool - In progress July-Present 2024

- Real-time data collection of internal vehicular metrics (RPM, Brake Pressure, Acceleration Rate). Relayed this information into a live data crunching system to generate a live analysis of user driving habits and safety ratings.
- Scikit-learn API used to monitor live data feed from the OBD-II port and AI to derive analysis from sensor delta. Matplotlip to visualize data spikes/dips alongside PostgreSQL database to store incoming data.

TECHNICAL SKILLS

Languages: Python, Java, HTML/CSS, Javascript, C++, PostgreSQL
Developer Tools: Git, MongoDB, React, VSCode, XCode, PyCharm, pgAdmin, Vim
Technologies: AWS, Microsoft Excel, Microsoft PowerPoint, Adobe Creative Cloud Suite