

Avaneesh Prasad

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OBJECTIVE

An internship that will allow me to utilize my strong work ethic, problem solving skills, and attention to detail to advance myself in the field of computer science.

EDUCATION

University of Michigan – Ann Arbor

Ann Arbor, MI

Computer Science (BSE) – Junior Standing

August 2022 – May 2025

GPA: 3.94 / 4.00

Coursework: Data Structures, Discrete Math, Computer Organization, Calculus I, II, and III, Physics I and II

Honors: William J. Branstrom Freshman Prize for ranking in the upper five percent of the freshman class, Dean's List and University Honors every semester

SKILLS

Languages: C++, Python, C, Java, HTML, CSS, MATLAB, Julia, JavaScript

Software/Tools: Git, Anaconda, VS Code, Visual Studio, IntelliJ, PyCharm, AWS, Kafka, Jupyter, Docker

Libraries: NumPy, pandas, Matplotlib, scikit-learn

Certification: AWS Cloud Practitioner

PROJECT TEAM

SPARK Electric Racing

Ann Arbor, MI

Software Team Member

September 2022 - present

- Collaborated with the Data subteam of 4 individuals with the objective of intaking a log file of CAN data from test runs of a racing electric motorcycle and deciphering the data from hexadecimal into displayable graphs.
- Co-wrote the python script which translated the hexadecimal CAN data into an array of 4 displays, exhibiting scaled graphs of Motor/Motor Controller Temperature, RPM, Voltage/Current, and Error Flags.
- Advanced a positive team environment, furthered relationships with peers, and aided in beneficial team building.

PERSONAL PROJECTS

Impact of Social Guidelines on the Spread of COVID-19

Troy, MI

June 2020 - January 2021

- Compiled data from COVID tracking projects and utilized linear regression, Bayesian, and Support Vector Regression models to predict what would happen if social restrictions in Michigan were or were not instituted.
- Wrote a research paper and presented this project at the Science and Engineering Fair of Metro Detroit, earning an "Excellent" rating as well as a Letter and Certificate from the US Air Force.

Disease Prediction Model

Ann Arbor, MI

January 2023 – May 2023

- Built and optimized a k-nearest neighbor disease prediction machine learning model that scored a 93.85% test set accuracy.
- Utilized pandas, NumPy, matplotlib, and scikit-learn libraries to create and analyze several machine-learning models.
- Created a k-means clustering model that found four distinct families of diseases with similar symptoms.
- Collaborated and brainstormed with peers to present our findings and formulate a professional report.

WORK EXPERIENCE

Cranbrook Schools Summer Camps

Bloomfield Hills, MI

Robotics Instructor

Summer 2021-2022

- Coached middle school students how to build and program VEX IQ robots (Python/C++/block code), the engineering design process and strategies.
- Devised daily hands-on activities, such as weekly VEX IQ tournaments between groups of campers that would challenge each group to adapt to new robot designs and iterative game strategies.
- Mentored 2 middle school VEX IQ teams to create high-scoring robots, complemented with driver and autonomous programming, which competed at the Monroe County Fair Vex Robotics Competition Tournament