ISHITA DESHMUKH

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EDUCATION

University of Michigan — **Ann Arbor, MI**
B.S.E. in Computer Science — **April 2024**
GPA: 3.97/4.0
College of Engineering Dean's Honor List – Fall 2021, Winter 2022, Fall 2022
Relevant Coursework: Data Structures and Algorithms, Computer Science Foundations and Pragmatics, Machine Learning, Discrete Math, Linear Algebra, Single and Multivariable Calculus, Statistics, Physics

West Windsor-Plainsboro High School North — **Plainsboro, NJ**
Weighted GPA: 4.8/5 — **June 2021**

SKILLS

Java, C++, Python, R, Git, Linux, MATLAB, MS Office

EXPERIENCE

Otsuka, Global Quality Solutions Intern — Princeton, NJ — **May 2022 – August 2022**

- Worked on AI-driven automated documentation review software to verify and enhance its functionality. Process involved validating more than 1,800 software features. Work resulted in identification of more than 1,200 features that needed improvement, greatly increasing effectiveness of the software.
- Communicated results of software validation to development team. Work involved analyzing the issues and creating and delivering a report to the team to ensure clear understanding of changes needed. Work resulted in 448 issues being fixed within a week and identification of a plan to resolve remaining issues.
- Presented information about the project to management as well as other interns at Otsuka, resulting in increased awareness of the work and generation of interest in computer system validation processes.

ACTIVITIES

Society of Women Engineers, Student Coordinator — **April 2022 – Present**

- Responsibilities include contacting alumni, recruiting student volunteers, and planning professional development events to help SWE members build long-lasting professional connections.

Michigan Neuroprosthetics, Project Lead — **October 2021 - Present**

- Implement voice recognition for prosthetic arm through a companion app. Process involves implementing speech recognition, transmitting voice data to an Arduino board, and using an Arduino program for interpretation. Results will include the ability to change settings of the arm using voice commands.

University of Michigan Science Olympiad, Event Supervisor — **September 2021 - Present**

- Participated in the Operations Committee to coordinate logistics for the UM Science Olympiad invitational. The invitational was an in-person event after two years and was a success.
- Supervised the Green Generation event for the invitational, including writing, proctoring, and grading the test for the event, resulting in successful running of the event.

Genes in Diseases and Symptoms, Club Member — **September 2021 – December 2021**

- Analyzed genetics data to research and identify overexpressed genes in certain diseases. Process involved reading data from an NCBI database and using R to create a heatmap to visualize genetic overexpression.

PROJECTS

Programming and Introductory Data Structures — **August 2021 – December 2021**

- Designed a machine learning classifier to read Piazza posts and predict a category for each post based on either the post type or the author. The classifier was trained using data containing categorized posts.
- Implemented a computer vision program that resized images by deleting lower ranked pixels, resulting in a smaller image that retains important elements of the original image.
- Developed a program that allowed a human or computer player to play the card game Euchre against three computer opponents.

AWARDS

- West Windsor-Plainsboro High School North Outstanding Senior in Science Overall (2021)
- MY SO Epidemiology 6th Place Medal (Science Olympiad) (2020)
- National Merit Scholarship finalist (2021)
- NJ Science Olympiad 1st Place Water Quality (2019 and 2020), 2nd Place Disease Detectives (2018 and 2020), 4th Place Disease Detectives (2019), 4th Place Chemistry Lab (2020), 6th Place Disease Detectives (2021)

OTHER ACTIVITIES

- Eta Kappa Nu Electee
- Tau Beta Pi Electee