VARSHA RAJESH

DATA SCIENCE ENGINEERING UNDERGRADUATE STUDENT

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SUMMARY

Hardworking, ambitious, and goal-oriented engineering student seeking a summer internship position in Data Science

SKILLS

C++	R	Statistical and Systems Analysis	Analytical Thinking
Python	MATLAB	Optimization	Technical Communication

EDUCATION

University of Michigan Ann Arbor, College of Engineering **Aug 2024 - Present**

Bachelors in Data Science Expected Graduation: May 2028

- GPA: 3.88
- Engineering Scholarship of Honor
- Relevant Coursework: Programming and Intro to Data Structures (EECS280), Introduction to Statistical Computing (DATASCI306), Introduction to Probability Theory (MATH425), Discrete Mathematics (EECS203)

Plymouth High School **Sept 2020 - Jun 2024**

- GPA: 4.6 weighted, 4.0 unweighted
- AP World History, Microeconomics, Macroeconomics, English Language, English Literature, Calculus BC, US Government, Chemistry, Biology, Psychology
- Dual Enrollment at Washtenaw Community College in Multivariable Calculus, Linear Algebra, Calculus-based Physics 1 and 2

RESEARCH AND PROJECT EXPERIENCE

Election Voting Analysis Data Analytics Project Team **Jan 2025 - Present**

Michigan Data Science Team Member

- Applied Python skills to analyze census data with advanced Pandas, machine learning, linear and logistic regression to draw conclusions and find trends, resulting in a final website and presentation presented at the semester expo
- Collaborated with team of 12 to utilize Python in order to explore a specific domain in which data science can be applied
- Engaged with the data science community through workshops in order to build connections and interact with various companies

Assessing Out-of-the-Box Bioinformatics Capabilities of OpenAI GPT **Aug 2024 - Present**

Research Assistant

- Performed basic DNA/RNA analysis with multiple large language models (LLMs) to analyze current AI performance on over 100 bioinformatics tasks and compare it to human performance
- Utilized R and Python to statistically analyze LLM capabilities and compare to human performance to find current insufficiencies in AI ability and make bioinformatics more accessible
- Wrote and presented research paper at symposium to increase awareness of the need for AI tools in bioinformatics

MIRCORE Research Symposium **Sept 2022 - April 2024**

Research Poster Presenter and GIDAS president

- Analyzed datasets focusing on autoimmune and neurodegenerative diseases using computational biology tools such as GEO2R, KEGG, and String-db to isolate genes and draw connections, allowing for development of statistical analysis skills
- Curated scientific abstract to present to 350+ people at national symposium about research findings to further scientific findings
- Taught high school club of 50+ members how to use computational biology tools to write own research abstracts

CO-CURRICULAR INVOLVEMENTS

Michigan Engineering Student Advisory Board **Dec 2024 - Present**

Board Member and Community Involvement Subcommittee Member

- Advocated for students to get proper representation by the university-wide Office of Culture, Community, and Equity in school actions to create a more welcoming College of Engineering student experience
- Interacted with university and community members such as the dean, K-12 programs, and 25+ student organizations in order to provide support of ME-SAB in various events

Indigo Salon, Day Spa, and Boutique **Jul 2023 - Present**

Front Desk Coordinator

- Interacted with customers in-person and via telephone to assist in booking and coordinating appointments to increase customer satisfaction and satisfy strategic booking strategies to maximize efficiency of the salon
- Collaborated with 20 coworkers fulfill administrative and building needs to create a suitable environment for staff and customers