

Rakesh Krishnan

raki@umich.edu ❖ (301)-979-5374 ❖ [LinkedIn](#) ❖ [GitHub](#) ❖ [My Website](#)

Objective: Harness the power of data and analytics to drive solutions to climate change and societal challenges

EDUCATION

University of Michigan, Ann Arbor

Graduation May, 2026

B.S. in Data Science, Environment (Double Major), Undergraduate Honors Program

- 3.79/4.0 Cumulative GPA, 84 total credits, 101/120 credits by May 2024, 34 on ACT
- William J. Branstorm Prize Recipient: Awarded to freshmen who rank in the upper five percent of their class
- James B. Angell Scholar Award: Awarded for my two consecutive semesters of earning only As in classes
- Past Classes: Calculus III (MATH 215), Web Systems (EECS 485), Data Structures & Algorithms (EECS 281) Probability & Statistics (STATS 412), Economics (ECON 101), Statistical Computing (DATASCI 306)

WORK EXPERIENCE

Michigan Data Science Team

January 2024– Present

Project Team Member

Ann Arbor, MI

- Constructed and implemented an adaptive artificial intelligence model capable of playing the game “codenames” by generating accurate and relevant clues by using python, the gensim library, and a word2vec model.
- Transformed complex data into compelling visuals using the power of the pandas and numpy python libraries.
- Mastered the use of linux, shell scripting, virtual environments, and git to streamline project development.

BLUElab Metro

September 2022 – Present

Team Member

Ann Arbor, MI

- Developed and executed equitable solutions to engage the community to achieve full electrification of over 800 houses in Bryant, Ann Arbor while minimizing gentrification, benefitting over 3,000 local residents.
- Engaged in skill building workshops, including project planning, python, C++, and leadership workshops
- Collaborated with community leaders and A2Zero to build greater support for the electrifying project.

Montgomery County Green New Deal

July 2021 – June 2023

Intern, Activist

Rockville, MD

- Orchestrated multiple climate protests of hundreds of people and eloquently represented the internship program for the media interviewers of local news sites, magazines, and TV channels: [Article 1](#), [Article 2](#)
- Created a promo video and built relationships that brought in over \$3,000 in donor funding for the internship.
- Gave a passionate five minute long speech about the intersectionality of climate change for hundreds of people, including Montgomery County Executives and Board Members, at a major University of Maryland event.

Projects

- InterviewerAI: Leveraged Google Gemini 1.5 API in sync with a backend flask server and frontend react.js scripts to create an interactive interview app that provides tailored feedback on speech and facial expressions.
- **Metro Solver**: Personal project written in C++ where I built a connected database of the current metro stops and used Dijkstra’s algorithm to find the shortest path between any two desired metro stations on the map.
- **NBA Team Creator**: Personal project written in C++ involving user interaction. The user drafts a team of NBA players from a vast pool and competes against an optimized, but fair computer generated team.
- **Weather**: Developed an innovative weather app using React with fun features and buttons to engage the user.
- **Insta485**: Engineered a usable model of Instagram where you can login, post, follow, and view others’ content.
- **Classifier**: Used machine learning and natural language processing with over 1,500 data sets from previous semesters to train a Naive Bayes Classifier that could categorize forum posts with about 88% accuracy.
- **Euchre**: Coded a simulation of a popular Michigan card game, and then created an AI that could also play it.
- **Bank**: Built the internal structure of a bank, able to facilitate transactions, track fraud, and store user history.

SKILLS, AWARDS, & INTERESTS

- **Skills**: C++, Git, Python, React, JavaScript, R, Shell Script, HTML/CSS, SQL, AWS, Makefile, Hindi, Adaptable
- **Awards**: Certificate of Meritorious Service, NIH Career Development Certificate, Federal Asian Pacific American Council (FAPAC) Best Community Project Award, AP Scholar with Distinction
- **Interests**: Web Development, Social Justice, Mystery Novels, Media Production, Fitness, Psychology