

# Sai Ramesh

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## EDUCATION

### **Michigan State University (MSU)**

*Master of Science, Major in Computer Science*

*Bachelor of Science, Major in Computational Data Science*

**Distinguished Freshman Scholarship, MSU Honors College**

**Master's GPA: 4.00, Bachelor's GPA: 3.88, SAT: 1570/1600**

Expected Graduation: December 2023

Graduated: May 2022

Full tuition, merit (\$170,000 total value)

MSU Dean's List (all semesters)

## EXPERIENCE

### **Atlassian, Data Science Intern, San Francisco, CA**

May 2023-August 2023

- Created HybridSPRT, a sequential testing algorithm that can reduce A/B test experiment runtimes by up to 60%. Wrote a detailed report on the method, leading to a publication on the Data@Atlassian Medium blog (in-progress)
- Implemented HybridSPRT in Python with extensive documentation and unit tests. Deployed via an interactive Databricks notebook and tested on current experiments, showing reduced experiment runtimes of over 50%.

### **MSU Computer Science, Algorithms and Data Structures TA, East Lansing, MI**

January 2023-Present

- Assisted in the development of a linked list project written in Python, with comprehensive documentation and unit testing. Project deployed to 150+ students.
- Graded hundreds of project solutions to ensure runtime and space complexity requirements. Assisted hundreds of students via weekly help hours and an online help forum, leading to improved understanding of class concepts.

### **Ford Motor Company, GDI&A Data Science Intern, Dearborn, MI (remote)**

May 2022-August 2022

- Productionized an end-to-end machine learning workflow to predict runtimes of key database jobs in real-time, reducing the time needed to inform stakeholders (dealers, analytics teams, etc.) of long-running jobs by >90%.
- Developed a Python module and a Flask API to interface with the Seldon model deployment and containerized with Docker. Collaborated effectively with cross-functional teams, resulting in an evaluation score of 100%.

### **Delta Dental Insurance, Data Science Capstone, East Lansing, MI (remote)**

January 2022-April 2022

- Implemented a robust pipeline for synthetic data generation using Python libraries to replicate Delta Dental's sensitive insurance claims data to improve data privacy for customers.
- Regularly interfaced with the client, participated in weekly project sprint meetings with a team of 4 members; and developed an interactive module that produces 100k rows of high-quality synthetic data in ~1 min.

### **Ford Motor Company, GDI&A Summer Internship, Dearborn, MI (remote)**

May 2021-July 2021

- Trained a PyTorch-based Faster R-CNN object detection model on a dataset of 70K images to successfully detect traffic objects; utilized K-means clustering to geotag traffic objects with <1-meter error from real-world location.
- Developed a reusable Python codebase with extensive documentation to enable further work by the Autonomous Vehicle Mapping team and presented results of work to over 40 members of the Ford AI Advancement Center.

## LEADERSHIP

### **Junior Achievement- Personal Finance Mentor**

April 2023-Present

- Taught personal finance fundamentals to over 20 third grade students in an underserved school district. Topics included budgeting, saving, and entrepreneurship. Encouraged the early development of investment habits.

### **Spartan Toastmasters (Public Speaking)- President, Vice President of Education**

September 2019-Present

- Developed strong collaboration skills by leading a team of 7 E-Board members. Launched a recruitment drive that increased membership by 2X, transitioned from virtual to in-person meetings and helped over 30 active members grow as public speakers. Improved communication/presentation skills by giving speeches to diverse audiences.

## SKILLS

- Conceptual Strengths:** Machine Learning, A/B Testing, Data Structures and Algorithms
- Programming Languages/Tools:** Python, SQL, R, Docker, Git
- Data Science Tools:** Pandas, NumPy, Matplotlib, Scikit-learn, PyTorch