

Aamuktha Kottapalli

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Data scientist with a background in Python, machine learning pipelines, and election technology research. Experience applying quantitative methods to civic and policy-adjacent domains, communicating findings to cross-disciplinary audiences, and building data engineering tools. Currently conducting research at MIT's Election Data and Science Lab.

EXPERIENCE

MIT Election Data and Science Lab (MEDSL)

Senior Research Support Associate

May 2026 – Present

Cambridge, MA

- Conduct data analysis in **Python** and **R** supporting original research on U.S. election administration and voting systems
- Contribute to research writing on civic technology topics including election data infrastructure and digital governance
- Attend lab meetings and support research projects under research faculty members

GenDigital

Site Reliability Engineer

Jun 2025 – Aug 2025

Mountain View, CA

- Built a **fraud detection platform** leveraging **Google Cloud APIs** and **Gemini 2.0**, contributing to cloud-first ML application design
- Developed **CI/CD** support scripts and system monitoring automation using **Python** and **SumoLogic APIs**, reducing manual toil
- Automated infrastructure provisioning using **Terraform**, deploying virtual networks and VMs in **Azure** for scalable applications
- Selected to present project outcomes to executives, demonstrating communication of complex technical concepts

Associated Students of Madison (ASM – Student Government)

Student Election Commissioner

Oct 2023 – May 2025

Madison, WI

- Manually tested beta election ballot software and recommended 2 feature improvements to developers focused on user accessibility
- Represented 48,000+ students on the IT Committee, advocating for cybersecurity measures and system reliability enhancements

Kalan Lab

Bioinformatics Researcher

Oct 2023 – Aug 2024

Madison, WI

- Built **predictive models** in **PyTorch** and Python, improving genomic sequence classification efficiency by 40%
- Cleaned and transformed large genomic datasets in **Python** for ML pipelines, ensuring high-quality data inputs
- Presented findings at ML research symposiums using data visualization to communicate results to mixed technical audiences

PROJECTS

Rent Price by Region

Data Analyst

- Used **R** to analyze 4,500+ rent price data points from Kaggle, computing regression, correlation, and distribution metrics to compile a visual report
- Led project team in proposal creation, facilitated 2 brainstorming sessions, and plotted 4 major features of the final analysis

SumoLogic Automation + Monitoring Tool

Backend Developer

- Built **Python** application with **RESTful API** SumoLogic integration and a user-configurable data pipeline
- Implemented dynamic spike detection thresholds capturing 95% of normal behavior patterns for adaptable error monitoring
- Developed automated email generation with embedded **matplotlib** charts and alert generation for real-time trend analysis

BadgerBurrow

Backend + Integration Developer

- Built 3 **Python Flask** API routes querying a **SQL** database of web-scraped data; deployed full product on **Heroku**
- Integrated **Google Maps API** with **React** to enable geographic navigation of 200+ campus study spots

EDUCATION

University of Wisconsin – Madison

B.S., Computer Sciences | GPA: 3.43

May 2025

- Coursework: Algorithms, AI, Data Management for Data Science, Information Security, Operating Systems, AI Ethics, Bioinformatics, Linear Algebra

ADDITIONAL

Interests: Civic technology, election administration, public interest data science; 2022 Female Runner MVP & HS XC/Track Captain