Tessa Everett

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EDUCATION

Massachusetts Institute of Technology (est. graduation May 2026)
Candidate for a B.S. in Artificial Intelligence and Decision-Making with a Biology Minor
GPA: 4.5/5.0
Computing Coursework: Introduction to Machine Learning • Introduction to Inference • Introduction to Algorithms • Fundamentals of Programming • Math for Computer Science • MIT Pokerbots Competition
Biology Coursework: Generative AI in Biology • Biochemistry • Organic Chemistry • Thermodynamics of Biomolecular Systems • Making for Biological Engineers

WORK EXPERIENCE

Software Engineering (AI) Intern (May 2024–September 2024)
SeeScan, San Diego, CA (Remote)
- Developed the team's primary computer vision dataset creation pipeline using Python, implementing techniques to address class imbalance.
- Led the transition from local model training to AWS, and upgraded the pipeline from YOLOV5 to YOLOV10.
- Studied and adjusted hyperparameters on YOLO models, optimizing for small object detection.
- Created a preliminary random forest model to validate image recognition predictions using greater contexts.

Lodging Manager (May 2024–Present)
Alpha Delta Phi Literature Society, Cambridge, MA
- Managing a 5-story, 60-room historical house in downtown Cambridge, with $500,000 yearly income.
- Handling tenant relations, house maintenance, payment collections, lease agreements, and inventory management.
- Secured a projected 50% increase in lodging income for FYE 2025 through improved room allocation.

Protein Engineering Intern (June 2023–July 2023)
Centre for Biotechnology and Bioengineering, Santiago, Chile
- Purified target proteins using liquid chromatography and conducted Bradford assays to assess protein functionality.
- Monitored and optimized batch-fed Pichia pastoris yeast cultivation for improved protein production.

Electronics and Neurobiology Lab Undergraduate Researcher (December 2022–May 2023)
Bioelectronics Lab at MIT, Cambridge, MA
- Executed immunohistochemical staining, tissue preparation, slide mounts, confocal microscopy, and image analysis; enhancing the lab's ability to understand the gut-brain axis in the SHANK3B Autism Spectrum Disorder mouse model.

AI Model Trainer (March 2021–August 2021)
Drover AI, Big Sky, MT (Remote)
- Annotated and organized images for real-time image recognition in micromobility safety systems.

EXTRA CURRICULAR

Alpha Delta Phi Literature Society (September 2022–Present)
- Executive board member, exemplifying leadership and contributing to the direction of the house.

Varsity Track and Cross Country Athlete (August 2022–Present)
- Dedicated member of MIT's Varsity Track and Cross Country teams, earning NEWMAC athlete of the week in 2022

MIT Strategic Game Society (January 2024–Present)
- Regularly engaging in competitive strategy games, refining probabilistic and adaptive thinking.

SKILLS

Technical: Python, PyMol, YOLO, Scikit-learn, OpenCV, Pandas, Matplotlib, NumPy, AWS
Other: Management, Public Speaking, Spanish Proficiency