

Mansi Maheshwari

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EDUCATION

University of Massachusetts Amherst <i>Master's of Science in Computer Science GPA 4.0</i>	Amherst, MA Aug. 2024 – May 2026
<ul style="list-style-type: none">• Relevant Coursework: Neural Networks, Reinforcement Learning, Robotics, Algorithms for Data Science, Research Methods, Research Writing• Master's Thesis: Lifelong Reinforcement Learning in Embodied Settings; Supervisors: Bruno Castro da Silva, Hao Zhang	

University of Washington <i>Bachelor's of Science in Electrical Engineering</i>	Seattle, WA Aug. 2018 – June 2022
<ul style="list-style-type: none">• Relevant Coursework: Fundamentals of Optimization and Machine Learning, Signal Processing, Multivariate Calculus, Statistical Methods for Science, Embedded Systems	

PUBLICATIONS

- M. Maheshwari**, B. da Silva, and J. Raisbeck *AltNet: Alternating Network Resets for Plasticity*. In **Proceedings** of the Conference on Lifelong Learning Agents (CoLLAs), 2025.
- M. Maheshwari**, J. Raisbeck, and B. da Silva *AltNet: Addressing the Plasticity-Stability Dilemma in Reinforcement Learning*. In **Submission** at the International Conference on Autonomous Agents and Multiagent Systems (AAMAS), 2026.

AWARDS AND SCHOLARSHIPS

Groundbreaking Graduate Researcher Award Nominee <i>Nominated by Professor Bruno Castro da Silva; results expected in 2026</i>	October 2025
Finalist, Three Minute Thesis Competition <i>Recognized as one of the top 10 students in a university-wide competition for translating complex scientific research into accessible ideas to a broad audience</i>	March 2025
Lawrence & Lucille Frey Endowed Electrical Engineering Scholarship <i>Merit-based scholarship given to a select few students at the University of Washington</i>	2020 – 2021

RELEVANT EXPERIENCE

Research Assistant (Reinforcement Learning and Robotics) <i>Autonomous Learning Lab, University of Massachusetts</i>	July 2024 – Present Amherst, MA
<ul style="list-style-type: none">• Developed a novel deep reinforcement learning architecture that improves continual learning, enhances sample efficiency, and increases safety in non-stationary environments.• Evaluated agents on robotics control tasks and game environments (DeepMind Control Suite, MuJoCo).• Adapting the proposed architecture for deployment on real robotic platforms.• Published this research in workshop at the Conference on Lifelong Learning Agents (CoLLAs) 2025; Full version in submission at the Conference on Autonomous Agents and Multiagent Systems (AAMAS) 2026.	
Artificial Intelligence Research and Development Intern <i>CNH Industrial, Perception Team - Autonomous Vehicles</i>	May 2025 – Aug 2025 Scottsdale, AZ
<ul style="list-style-type: none">• Led the design and development of an efficient, scalable vision architecture unifying object detection and segmentation through a transformer based YOLO multihead model for autonomous vehicles.• Improved computational efficiency by ~43%, meeting strict latency requirements.• Developed and documented a multi-task architecture that would allow new vision tasks to be added with minimal compute overhead, establishing a scalable foundation for future vision capabilities.• Investigated multi-modal perception strategies by fusing image and sensor data, future-proofing the architecture for richer sensing modalities.	

Software Engineer

Nordstrom

July 2022 – July 2024

Seattle, WA

- Optimized workflow by automating multiple engineering tasks (Java) in distributed systems.
- Achieved 80% test coverage for large-scale data integrity through JUnit Integration Tests for multiple projects.
- Led end-to-end development (requirements gathering, design discussions, code reviews, testing, and deployment) of a feature to stop awarding points for alcohol purchase.

TEACHING EXPERIENCE

Instructor, Fundamentals of Artificial Intelligence

University of Washington

May 2025 – Jul 2025

Remote

- Instructed a 10-day, 30-hour course introducing high school students to core AI concepts including machine learning, deep learning, computer vision, large language models, and ethical AI; guided students in completing final projects synthesizing learned skills.
- Co-developed the curriculum and designed accessible, visually engaging slide decks and coding exercises to support conceptual understanding.
- Fostered an inclusive and interactive classroom environment through live polls (Poll Everywhere), quizzes (Kahoot), reflection activities, and curated videos showcasing real-world AI applications to enhance engagement and conceptual understanding.

Subject Matter Expert, Artificial Intelligence

iCEV Multimedia

Sept 2025 – Present

Remote

- Provided subject-matter expertise for the Introduction to Artificial Intelligence textbook, ensuring conceptual accuracy, effective pedagogy, and alignment with educational standards.
- Reviewed lesson plans, identify gaps in learning progression, and deliver feedback to enhance student comprehension and engagement.
- Collaborated with curriculum designers to improve instructional materials and integrate real-world AI examples for accessibility and impact.

PROJECTS

Human Following Robot, Autonomous Cinematography

Feb 2025 – May 2025

- Designed and implemented a mobile robot pipeline integrating perception (YOLOv7 for human detection and tracking), path planning (DWA-based trajectory generation), and real-time control (PID-based actuation) to autonomously follow and film a moving subject.

Multi-Modal Conversational Recommender System

Aug 2024 – Dec 2024

- Built a multi-modal recommendation pipeline (tabular, visual, text) using CLIP encoders and BERT-based retrieval, with LLM explainability (GPT-4) to generate transparent rationales and enhance user trust.