

Mansi Maheshwari

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EDUCATION

University of Massachusetts Amherst <i>Master's of Science in Computer Science GPA 4.0</i> Relevant Coursework: <i>Neural Networks: Modern Intro, Reinforcement Learning, Robotics, Algorithms for Data Science</i>	Amherst, MA Aug. 2024 – May 2026
University of Washington <i>Bachelor's of Science in Electrical Engineering</i>	Seattle, WA Aug. 2018 – June 2022

WORK EXPERIENCE

Research Assistant - Artificial Intelligence <i>Autonomous Learning Lab, University of Massachusetts</i> <ul style="list-style-type: none">Investigated the plasticity–stability dilemma in Reinforcement Learning agents.Explored mechanistic interpretability approaches to identify the underlying causes of plasticity loss.Proposed a novel method enabling agents to adapt rapidly and sample-efficiently, advancing continual learning.Published as a workshop paper at CoLLAs 2025; Preparing a full paper submission to ICLR 2026.	July 2024 – Present Amherst, MA
Artificial Intelligence Research Intern <i>CNH Industrial (Autonomous Vehicles for Agriculture), Perception Team</i> <ul style="list-style-type: none">Conducted literature review on multi-task learning and multi-head architectures to reduce compute on edge.Integrated object detection and segmentation into a unified transformer-based YOLO multi-head model.Improved computational efficiency by ~43% (35M → 20M parameters), critical for real-time deployment on edge.	May 2025 – Aug 2025 Scottsdale, AZ
Instructor, Fundamentals of Artificial Intelligence <i>University of Washington</i> <ul style="list-style-type: none">Instructed a 10-day, 30-hour course introducing 25 high school students to core AI concepts (ML, DL, CV, LLMs, ethical AI) and guided final projects.Developed curriculum and created engaging slide decks and coding exercises to strengthen understanding.Fostered an interactive classroom using polls, quizzes, reflections, and curated videos on AI applications.	March 2025 – Jul 2025 Remote
Software Engineer <i>Nordstrom</i> <ul style="list-style-type: none">Built predictive models (machine learning) on large customer data to analyze purchasing patterns.Optimized workflow by automating multiple engineering tasks (Java) in Agile environments, like 6-step Points Adjustment process in distributed systems, reducing time by 90%.Achieved 80% test coverage for large-scale data integrity through JUnit Integration Tests for 5 projects.Saved Nordstrom 28M in compliance by leading end-to-end development (requirements gathering, design discussions, code reviews, testing, and deployment) of a feature to stop awarding points for alcohol purchase.	July 2022 – July 2024 Seattle, WA
Artificial Intelligence Research Intern <i>HeyMoon</i> <ul style="list-style-type: none">Conducted a literature review of Explainable-AI (XAI) in LLMs for transparency in the medical domain.Achieved 100% reliability in deterministic setting with rule-based model, eliminating probabilistic nature of LLMs.Communicated research findings and implementations through architecture diagrams and presentations.	Jan 2023 – Feb 2024 Remote

PROJECTS

Human Following Robot, Autonomous Cinematography <ul style="list-style-type: none">Integrated perception (YOLOv7 for detection/tracking), planning (path generation), control (real-time actuation).	Feb 2025 – May 2025
Multi-Modal Conversational Recommender System <ul style="list-style-type: none">Enhanced transparency by integrating LLMs, for explainability, to traditional recommender systems	Aug 2024 – Dec 2024

TECHNICAL SKILLS

Languages: Python, JAX, SQL, Java, C/C++, R, MATLAB, JavaScript
Frameworks and Libraries: PyTorch, ROS, Numpy, Pandas, Matplotlib, scikit learn

PUBLICATION

AltNet: Alternating Network Resets for Plasticity, CoLLAs 2025