Banafsheh Rekabdar

Assistant professor of Computer Science
Director of Artificial Intelligence Lab

Portland State University

Research Expertise: Generative AI (VAEs, GANs, transformers, diffusion models), Large Language Models, Reinforcement Learning, deep learning
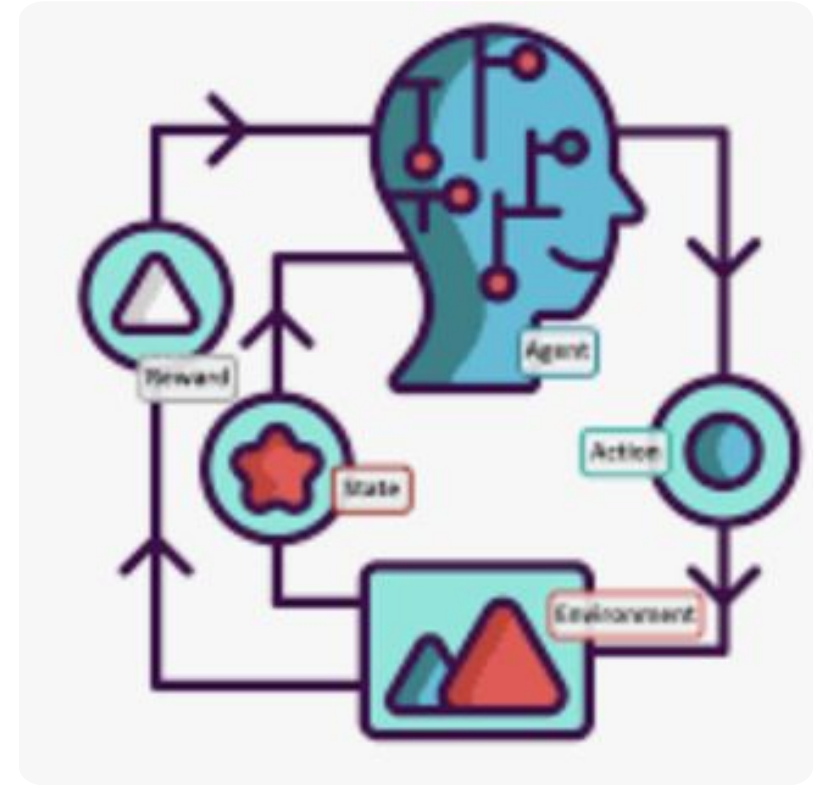
My Collaborators

My funded Projects

Generative AI and Large Language Models

- **Project 1:** Large language models to dynamically and adaptively generate features (Submitted to NeurIPS, 2024)

- **Project 2:** Transformer-Based Approach for Sample Generation in Motion Planning (IEEE CASE 2023)

- **Project 3:** Variational Auto-Encoders for Adversarial Robustness (DBB 2022) (IEEE TransAI 2023)

Generative AI

Reinforcement Learning

- **Project 1:** Deep Hierarchical Variational Autoencoders for World Models in Reinforcement Learning (IEEE TransAI, 2023)

- **Project 2:** Deep Reinforcement Learning Based Group Recommendation System (IEEE TransAI 2023) (IEEE ESANN 2024)

Computer Vision and Deep Learning

- **Project 1:** DaFF: Dual Attentive Feature Fusion for Multispectral Pedestrian Detection (IEEE/CVF 2024)

- **Project 2:** Illuminating the Bias in Pedestrian Detection (IEEE ISM 2023)

- **Project 3:** Spiking Convolutional Vision Transformer (IEEE ICSC 2023)