

EDUCATION

Indiana University <i>Ph.D. in Computer Science</i>	Bloomington, IN May 2026
Indiana University <i>M.S. in Data Science</i>	Bloomington, IN May 2021
West Bengal University of Technology <i>B.Tech. in Computer Science and Engineering</i>	Kolkata, India June 2016

PUBLICATIONS

- (C1) **Palash Chatterjee**, Ashutosh Chapagain, Weizhe Chen, Roni Khardon. DiSProD: Differentiable Symbolic Propagation of Distributions for Planning. *International Joint Conference on Artificial Intelligence (IJCAI) 2023*.
- (W1) **Palash Chatterjee**, Roni Khardon. Planning with temporally-extended actions. *Workshop on Bridging the Gap Between AI Planning and Reinforcement Learning, AAAI Conference on Artificial Intelligence 2025*.

EXPERIENCE

Indiana University <i>Research Assistant</i>	Bloomington, IN Aug 2020 - Present
Currently working with Dr. Roni Khardon on improving planning and learning capabilities in model-based reinforcement learning.	
Developed a differentiable symbolic planner that captures the distribution over future trajectories resulting in better plans in environments with high uncertainty or sparse rewards.	
Indiana University <i>Data Analyst</i>	Bloomington, IN Nov 2019 - Aug 2020
Collected and analyzed data about K-12 schools to study the relationship between the demographics of students and their performance in computer science courses, and visualized the relationships on a Dash dashboard.	
ThoughtWorks Technologies <i>Application Developer</i>	Gurgaon, India July 2016 - July 2019
Migrated existing MR pipelines and built custom Spark pipelines for data ingestion, cleanup and transformations to predict after-sales service.	
Built Jenkins pipelines to enable continuous integration and deployment of code in various environments.	
Led a team of 5 to develop a proof-of-concept for predicting equipment based on after-sales invoice with an accuracy of over 70% using decision trees.	

PROJECTS

- SympyToTorch**
Developed an utility to generate a PyTorch computation graph for a SymPy functions.
- Episodic Memory DQN**
Implemented an episodic memory DQN in PyTorch that augments Q-Learning with episodic memory to improve learning.
- Using IMPALA as rollout policy for Monte Carlo Tree Search**
Implemented single learner IMPALA architecture and used the same as rollout policy with Monte Carlo Tree Search.
- Outlier detection using C2C-Siamese Networks**
Detect outliers, by comparing the difference in feature representations of classes, using a Siamese Network, with an accuracy of 70% on MNIST.

SERVICE

PC Member
AAAI 2024, 2025

TEACHING EXPERIENCE

Indiana University	Bloomington, IN
B659: Topics in AI: Reinforcement Learning	<i>Spring 2022, 2024, 2025</i>

HONORS AND AWARDS

Winner of International Planning Competition - Probabilistic Track	<i>2023</i>
<i>International Conference on Automated Planning and Scheduling</i>	
Luddy Outstanding Research Award	<i>2021</i>
<i>Luddy School of Informatics, Computing and Engineering, Indiana University</i>	

TECHNICAL SKILLS

Languages: Python, Java, SQL, Latex
Tools and Frameworks: Git, NumPy, Scikit-learn, Pandas, PyTorch, JAX, AWS, MapReduce, Spark, Hive, Jenkins, Redis, Parquet, HTML, CSS