Ahana Deb

Education	Graduate Student in Reinforcement Learning Universitat Pompeu Fabra	Barcelona, Spain 2023 - 2027 (expected)	
	• Advisor: Prof. Anders Jonsson • Research area: Reinforcement Learning		
	Masters in Intelligent Interactive Systems Universitat Pompeu Fabra	Barcelona, Spain 2022 - 2024	
	 GPA: 9,38, Rank: 1. Master thesis title: "Inverse reinforcement learning with linearly-solvable MDPs for multiple reward functions" (Supervised by Anders Jonsson, Vicenç Gómez, Mario Ceresa) 		
	B.E. Instrumentation and Electronics Engineering Jadavpur University	Kolkata, India 2016 - 2020	
	• Bachelor thesis title: "Analysis of anisotropic diffusion and Perona- enhanced edge-preservation and image denoising" (Supervised by Profes Mitra)		
Publication	S1. "Offline RL in Regular Decision Processes: Sample Efficiency via (Ahana Deb, Roberto Cipollone, Anders Jonsson, Alessandro Ronca, Mohan ICLR, 2025.		
	2. "Tractable Offline Learning of Regular Decision Processes", (Ahana Deb , Roberto Cipol- lone, Anders Jonsson, Alessandro Ronca, Mohammad Sadegh Talebi). EWRL , 2024.		
	3. "BeAts: Bengali Speech Acts Recognition using Multimodal Attention Fusion", (Ahana Deb, Sayan Nag, Ayan Mahapatra, Soumitri Chattopadhyay, Aritra Marik, Pijush Kanti Gayen,Shankha Sanyal, Archi Banerjee, Samir Karmakar). Artificial Intelligence in Healthcare: Transforming Diagnostics and Treatment. INTERSPEECH, 2023.		
Work	Joint Research Center, European Commission Barcelona, Spain	2023	
Experience	• I did my master thesis "Inverse reinforcement learning with linearly-solvable MDPs for multiple reward functions" under the supervision of Anders Jonsson, Vicenç Gómez, Mario Ceresa. Available <u>here</u>		
	Sir C.V. Raman Centre for Physics and Music, Jadavpur University Kolkata, India	2020-2022	
	 Analysis and classification techniques of Hindustani Music, Corpus development of speech data in Bengali, and proposing novel optimal transport pipelines for speech act recognition, under Dr. Shankha Sanyal and Prof. Dipak Ghosh 		
	Research Intern at TCS Innovation Labs Kolkata, India	2019	
	• Developed algorithm for 3-view motion and position detection of an ob independently moving monocular camera, implemented deblurring with De- architecture for a monocular camera, under Dr. Arnab Sinha		
Teaching Experience	Graduate Teaching Assistant Universitat Pompeu Fabra	2023-ongoing	
	 Artificial Intelligence, Undergraduate Course Object Oriented Programming, Undergraduate Course 		
	Teaching Assistant Reinforcement Learning Summer School	2023	
	 Teaching assistant for <u>DQN tutorial</u>, for Antonin Raffin, Barcelona Re Learning Summer School, 2023. 	inforcement	
Workshops	• LeRobot Hackathon, 2024 organized by HuggingFace, Toulouse, France.	2024	
and Summer Schools	• AISTATS, 2024 , Valencia, Spain	2024	
	• Workshop on Optimal Transport 2024, Humboldt University of Berlin, Germany	2024	

	 Co-organizer for RLSS (Reinforcement Learning Summer School, 2023), Barcelona, Spain ESSAI 2023 (European Summer School on Artificial Intelligence), Univerza v Ljubljani, Slovenia 	2023 2023
Skills	 Languages: English (professional), Bengali (native/bilingual), Hindi (native/bilingual), Catalan (B1) Programming: Python, Java, PyTorch, TensorFlow, R, pandas, Keras, NumPy, Scikit-learn,Python, C++, MATLAB 	
Relevant Courses	Reinforcement Learning (Master's course): Position 1 in class Probabilistic Graphical Models (Master's course): Position 1 in class Others: Linear algebra, Calculus, Probability Theory, and Statistics, etc	
Academic Services	Reviewer for International Symposium on Frontiers of Research in Speech and Music (FI	RSM)