NIKUNJ GUPTA

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EDUCATION	PhD in computer science, University of Southern California	2023-Ongoing		
	MS in computer engineering, New York University (Thesis)	2021-2023		
	BTech & MTech in information technology, IIITB (THESIS)	2014-2019		
Degrandi	Mu A OUEDEG AT Descend Intern Drof Coming Physhipsi Kahan	Jan-Jul 2023		
RESEARCH	MILA QUEBEC AI, Research Intern, Prof. Samira Ebrahimi Kahou NYU COURANT, MSc Thesis, Prof. Dennis Shasha	2022-2023		
Experience	NYU CDS, Research Assistant, Prof. Jacopo Cirrone	Apr-Dec 2022		
	NYU TANDON, Research Assistant, Prof. Quanyan Zhu	Sep-Dec 2021		
	University of Alberta, Research Assistant, Prof. Matthew Taylo	-		
	·	r 2020-2021 2019-2020		
	AGANITHA (an AI startup) India, Data Scientist IIITB, MTech Thesis, Prof. GS Raghavan	2019-2020		
	,	2018-2019		
	ERICSSON RESEARCH INDIA, Research Intern, Dr. Swarup Mohalik			
	ABB RESEARCH INDIA, Research Intern, Dr. Divyasheel Sharma	Summer 2017		
SELECTED	In submission / Workshops			
Publications	S1. Gupta, N. and Kahou, S.E., 2023. CAMMARL: Conformal Action Modeling in			
$(\alpha - \beta)$	Multi Agent Reinforcement Learning. arXiv preprint arXiv:2306.11128.			
	(Accepted in Multi-Agent Behavior workshop at CVPR 2023.)			
	Journals			
	J1. Gupta, N., Srinivasaraghavan, G., Mohalik, S., Kumar, N. and Taylor, M.E.,			
	2023. Hammer: Multi-level coordination of reinforcement learning agents via			
	learned messaging. Neural Computing and Applications, pp.1-16.			
	(Previously accepted in Adaptive and Learning Agents workshop a			
	Conferences			
		umust Dlanning		
	C2. Mai, A., Gupta, N. , Abouzied, A. and Shasha, D., 2023, August. Planning			
	Multiple Epidemic Interventions with Reinforcement Learning. In Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence.			
	· ·			
	C1. Chen, S., Gupta, N. , Galbraith, W.B., Shah, V. and Cirrone, J., 2022, November 1, 2022, November 2, 2022, November			
	ber. Prediction of drug effectiveness in rheumatoid arthritis patients based on			
	machine learning algorithms. In Proceedings of the 2022 9th International Configuration of Principles of Principles (pp. 147-154)			
	ference on Biomedical and Bioinformatics Engineering (pp. 147-154).			
	Preprints			
	P2. Gupta , N., Mai, A., Abouzied, A. and Shasha, D., 2023. On the calibration of compartmental epidemiological models. arXiv preprint arXiv:2312.05456.			
	P1. Gupta, N., Li, T. and Zhu, Q., 2022. Informationally-Mosaic Reinforcement			
	Learning.	ic remiorement		
TEACHING	Introduction to Programming, USC	Fall 2023		
	Introduction to Reinforcement Learning, IIITB	Summer 2019		
	Applied Machine Learning, TCS Bangalore, Videoken, IIITB	Spring 2019		
	Mathematics for Machine Learning, IIITB	Fall 2018		
G.		2022/222		
SERVICE	Reviewer, Neural Computing and Applications Journal	2023/2024		
	Publicity Chair, HiPC 2024 Conference	2024		

Travel Awards Chair, HiPC 2023 Conference

2023

ACADEMIC PROJECTS (SELECTED)	Active irMathemLow-ranOptimizSpectralText-con	atteractive learning (USC) attical formulation of a research project (USC) k models for missing data imputation in EHRs (NYU) ing ResNet while being mindful of limited resources (NYU) Clustering algorithms for Directed Graphs (NYU) ditional DCGANs for text-to-image synthesis (IIITB) (R	EPORT)(CODE) CASK)(REPORT) CASK)(REPORT) ARXIV)(CODE) ARXIV)(CODE) ARXIV)(CODE) EPORT)(CODE)	
Presentations (Selected)	DECISION-M CAMMAR SPECTRAL	ONFLUENCE OF MARL AND GRAPHS, USC MAKING UNDER UNCERTAINTY VIA MARL, USC LL (accepted paper), MABe @ CVPR 2023, Mila CLUSTERING ON DIRECTED GRAPHS, NYU -MODELS FOR MISSING DATA IMPUTATIONS IN EHRS, NYU	2024 2023 2022 Rs. NYU	
	INFORMATIONALLY-MOSAIC REINFORCEMENT LEARNING, NYU HAMMER (accepted paper), ALA @ AAMAS 2021 BRINGING RL TO THE REAL WORLD!, IMPRS-IS PhD Symposium 2021 FULLY COOPERATIVE MULTI-AGENT RL: BUSINESS ANGLE, Aganitha MARL FOR WAREHOUSE LOGISTICS, Ericsson Research, RISE Conf'19			
	Техт-то-І	to-Image Synthesis, AI Club, IIITB Convolutional GANs, IIITB 2018		
	INTRODUCT REGION-BA REMOTE S QUALITATE CGNET SV	OMPREHENSIVE SURVEY OF MULTI-AGENT RL, IIITB ODUCTION TO REINFORCEMENT LEARNING, AI Club, IIITB ON-BASED CNNs, Advanced machine perception seminar, IIITB OTE SENSING: CHENNAI FLOODS 2015, IIITB LITATIVE INFERENCE WITH MULTIMODAL INTERACTIONS, IIITB LET SWARA: AN INDIAN VOICE-BASED PORTAL, Microsoft Research India 2017 TOTAL POLLUTION UNDER CONTROL, Hackmania Hackathon (Winner) 2016		
RELEVANT COURSES	USC NYU IIITB Online	Autonomous decision-making, Advanced analysis of algoric Deep learning, Mathematical tools for data science, Mathematicistics, Optimization, Probability and stochastic process Foundations of big data algorithms, ML, AI, DNN, RL CS224W Machine learning with graphs (Stanford) (LINK)	ematical sses	
MENTORING	 Nitin Bhuyyar, summer intern at USC Nishant Kumar, research intern at UofA (from IIT-BHU) Now @ Mastercard AI Dikshant Shehmar, summer intern at UofA (from IIT-B) Now @ Honda R&D 			
AWARDS & INVOLVEMENT	Graduate scholarship (USD 12000), NYU Tandon Mentor for 2 interns, Intelligent Robot Learning Lab, University of Alberta 2021 Mentor for 5 students, Student Mentoring Program, IIITB Volunteer, CGNet Swara, Microsoft Research India (LINK) 2017 Organizer, Tug of War and Badminton in IIITB's sports fest 2016/2018 Winner (1500+ teams nation-wide), HackMania hackathon, SPUC (LINK) Oct 2016 Winner (15 teams; 65 students), IIITB's DS hackathon, FitWit (LINK) Feb 2016 Ranked in top 1% (1.5M+ candidates) in of All India Engineering exam Apr 2014			