Rohit Gupta

Education $_$		
2019 - Ongoing	PhD. in Computer Science, University of Central Florida, Orlando	
2015 - 2017	M.Tech. in Computer Science and Engineering, IIT Kanpur, Kanpur, India	
2010 - 2014	B.Tech. in Electrical Engineering, IIT Kanpur, Kanpur, India	
Selected Pu	blications	
CVPR 2023	Class Prototypes based Contrastive Learning for Classifying Multi-Label and Fine-Grained	Educational Vide
	R Gupta , A Roy, S Kim, C Christensen, T Grindal, S Gerard, M Cincebeaux, A Divakaran, M Shah	
		XDMkG/)
AAAI 2023 Citations: 2	Contrastive Self-Supervised Learning Leads to Higher Adversarial Susceptibility	
	R Gupta , N Akhtar, A Mian, M Shah	
	Link to Pre-Print: https://arxiv.org/abs/2207.10862	
ICPR 2020 Citations: 51	RescueNet: Joint building segmentation and damage assessment from satellite imagery	
	R Gupta , M Shah	
	Link: https://ieeexplore.ieee.org/document/9412295	
MediaEval 2018 Citations: 15 CVIU, Jun '22 Citations: 78		
	R Gupta , K Motwani	
	Link: http://ceur-ws.org/Vol-2283/MediaEval_18_paper_31.pdf	
	TCLR: Temporal Contrastive Learning for Video Representation I Dave, R Gupta , M N Rizve, M Shah	
	Link: https://www.sciencedirect.com/science/article/pii/S1077314222000376	
Work Experi		
SRI International		1enlo Park (remote)
Research Intern		May- August 2022
	l, multi-modal prototype contrastive learning to solve fine-grained video content understanding.	may magazetet
	stwhile Xerox Research Center India)	Bangalore, Indi
Research Engineer, Co		Sep. 2017 - Jul. 201
recognition and ima	ety of projects in Computer Vision: Video memorability prediction, Analyzing multi-modal data for smart-city ap ge classification for augmented reality (AR) and appearance based re-identification of cars for traffic flow analysi	S.
Fuzzy Logix		Bangalore, Indi
DATA SCIENTIST		Jul. 2014 - Jun. 201
Developed an open-	ix™ suite of machine learning, statistical and financial algorithms embedded into data warehouses like Teradata source R frontend for DB Lytix™ Available at: https://github.com/Fuzzy-Logix/AdapteR/	™, Netezza™
Achievemen	ts	
2021	1st Place and Jury Prize, VI-Priors Action Recognition Challenge, ICCV	
2019	Fellowship, ORCGS Doctoral Fellowship, UCF	
2018	1st Place, MediaEval 2018: Predicting Media Memorability Task	
2010	National Rank 433 (Top 0.1%), Joint Entrance Exam, Indian Institutes of Technology	
Service		
2022-present	Reviewer, CVPR, ECCV, ICCV, AAAI, IEEE Journals (TIP, TNNLS, TCSVT)	
2020, 2022	Mentor, NSF Research Experiences for Undergraduates, UCF-CRCV REU Site	
2015-16	Teaching Assistant, Courses: Fundamentals of Computing, Machine Learning Tools & Techniques	IIT Kanpur
Recent Rese	arch Projects	
	tive Learning for Fine-Grained Educational Video Classification	SRI & UCF
NTERNSHIP AND GRADUAT	-	2022
Achieved state of the	art results on a novel dataset of education videos and two prior benchmark datasets (YouTube-8M and COIN)	
	trastive Self-Supervised Representations	UC
GRADUATE RESEARCH AS		202
leading to design of	arguments and empirical evidence to identify the root cause of the adversarial vulnerability of contrastive self-s a new method for training adversarially robust self-supervised models, outperforming the state of the art by abc	
Found a val Coustra ati	ve Learning of Video Representation	UCF
Graduate Research as Co	•	2021