

EDUCATION	University of Pittsburgh Ph.D. Intelligent Systems <i>Advisor</i> : Dr. Adriana Kovashka Recipient of <i>SCI Fellowship</i> , Dept. of Intelligent Systems	2021 - present <i>GPA</i> : 3.9/4.0
	Birla Institute of Technology and Science, Pilani M.E. Software Systems M.Sc. (Hons.) Chemistry B.E. (Hons.) Electrical & Electronics	2018 - 20 2013 - 18 2013 - 18
SELECTED PUBLICATIONS	Cycle Consistent Embedding of 3D Brains with Auto-Encoding Generative Adversarial Networks. Shibo Xing, Harsh Sinha , and Seong Jae Hwang. <i>In International Conference on Medical Imaging with Deep Learning (MIDL 2021)</i>	
	Learning to Enhance Visual Quality via Hyperspectral Domain Mapping (Student Abstract) Harsh Sinha , Aditya Mehta, Murari Mandal and Pratik Narang. <i>In AAAI Conference on Artificial Intelligence (AAAI 2021)</i>	
	Domain-Aware Unsupervised Hyperspectral Reconstruction for Aerial Image Dehazing Aditya Mehta, Harsh Sinha , Murari Mandal and Pratik Narang. <i>In IEEE Winter Conference on Applications of Computer Vision (WACV 2021)</i>	
	HIDeGAN: A Hyperspectral-guided Image Dehazing GAN. Aditya Mehta, Harsh Sinha , Pratik Narang and Murari Mandal. <i>In IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPR 2020)</i> .	
	Audio Classification using Braided Convolutional Neural Networks. Harsh Sinha , V. Awasthi and Pawan K Ajmera. <i>In IET Signal Processing, 2020</i>	
	Upgrading Security and Protection in Ear Biometrics. Harsh Sinha and Pawan K. Ajmera. <i>In IET Biometrics, 2019</i>	
	Studying the Role of Kinect as a Multi-Sensory Learning Platform for Children. Harsh Sinha , Shivin Srivastava, and Yash Sinha. <i>In ACM International Joint Conference on Pervasive and Ubiquitous Computing. (UbiComp 2018)</i>	
TECHNICAL SKILLS	Interweaving Convolutions: An application to Audio Classification. Harsh Sinha and Pawan K. Ajmera. <i>KDD Deep Learning Day, In International Conference on Knowledge Discovery and Data Mining (KDD 2018)</i>	
	<i>Languages</i> : PyTorch (Geometric, Lightning), R, Keras, Python, Java, C/C++ <i>Courses</i> : Machine Learning, Computer Vision, Object Oriented Programming, Data Mining, Information Retrieval <i>MOOCs</i> : Data Science Specialization	

EXPERIENCE	Graduate Student Researcher	University of Pittsburgh
	<i>Mentor:</i> Dr. Adriana Kovashka	May 2021 - Present
	Used Graph Neural Networks on images to learn an invariant graph-based representation for shape achieving robust generalization to unseen dataset distributions.	
	Research Assistant	CSIR-CEERI, Pilani
	<i>Mentor:</i> Dr. Santanu Chaudhury (Director, IIT Jodhpur)	July 2018 - Dec 2018
	Explored the potential of Generative Adversarial Networks (GANs) to generate 31 band hyperspectral images from RGB images.	
	Summer Intern	Samsung R&D Institute, Noida
	<i>Mentors:</i> Mr. Chetan Chauhan, Mr. Ashish Thakur	Summer 2017
HONORS & AWARDS	Fellow, Department of Intelligent Systems	Jan 2021
	Awarded to a select few doctoral students across the School of Computing and Information at the University of Pittsburgh.	
	UbiComp 2018 Travel Grant	Oct 2018
	Awarded a travel reimbursement of USD 600 for UbiComp '18	
	Microsoft Code.Fun.Do. Finalist Forum	Feb 2016 - August 2016
	<i>Runners Up</i> across top 15 universities in India. Developed a Kinect-based learning platform which consisted of multiple games and a dashboard to help specially-abled children overcome difficulties in education. Awarded prizes worth INR 1,00,000.	
PROFESSIONAL SERVICE	Reviewer : BMVC 2020, WACV 2021, 2022, GLOBECOM 2021, IET Biometrics	
EXTRA CURRICULAR ACTIVITIES	Johns Hopkins University	
	<i>Community Teaching Assistant.</i> Responsible for supporting student learning on discussion forums at Coursera for the courses Exploratory Data Analysis and Reproducible Research	
	Prayag Sangeet Samiti, Allahabad	
	<i>Sangeet Prabhakar in Tabla.</i> Equivalent to Bachelor of Music in Vocal/Instrumental.	