EDUCATION	University of Pittsburgh Ph.D. Intelligent Systems Advisor : Dr. Seong Jae Hwang Recipient of SCI Fellowship, Dept. of Intelligent Systems	2021 - present
	Birla Institute of Technology and Science, Pilani <i>M.E. Software Systems</i> Thesis : Hyperspectral guided Image Dehazing <i>Advisor :</i> Dr. Pratik Na	2013 - 20 rang
	M.Sc. (Hons.) Chemistry Thesis : Emission Properties of triplet harvesting AIE active materials in reverse micelles of gemini surfactants Advisor : Dr. Subit K Saha, Dr. I	
	B.E. (Hons.) Electrical & Electronics Thesis : Deep Learning for Biometrics Advisor : Dr. Pawan K Ajmera	
PUBLICATIONS	Harsh Sinha, Aditya Mehta, Murari Mandal and Pratik Narang. Le Visual Quality via Hyperspectral Domain Mapping (Student Abstract). Pr AAAI Conference on Artificial Intelligence (AAAI 2021)	•
	Aditya Mehta, <u>Harsh Sinha</u> , Murari Mandal and Pratik Narang. D supervised Hyperspectral Reconstruction for Aerial Image Dehazing. Pr IEEE/CVF Winter Conference on Applications of Computer Vision	oceedings of the
	Aditya Mehta, <u>Harsh Sinha</u> , Pratik Narang and Murari Mandal. Hyperspectral-guided Image Dehazing GAN Proceedings of the IEEE Computer Vision and Pattern Recognition (CVPR 2020) Worksho	
	Harsh Sinha, V. Awasthi and Pawan K Ajmera. Audio Classificat Convolutional Neural Networks. IET Signal Processing 14, no. 7 (202	-
	Harsh Sinha, Sakshi Kalra and Yashvardhan Sharma. Text-Convolution works for Fake News Detection in Tweets. In Evolution in Computati (pp. 81-90). Springer, Singapore, 2020.	
	<u>Harsh Sinha</u> and Pawan K. Ajmera. Upgrading Security and Protection rics. IET Biometrics 8, no. 4 (2019): 259-266.	on in Ear Biomet-
	Harsh Sinha, Raunak Manekar, Yash Sinha, and Pawan K Ajmer Neural Network-based Human Identification using Outer Ear Images. In for Problem Solving, pp. 707-719. Springer, 2019.	
	Harsh Sinha, Shivin Srivastava, and Yash Sinha. Studying the Role of Sensory Learning Platform for Children . In Proceedings of the 2018 AC Joint Conference and 2018 International Symposium on Pervasive Computing and Wearable Computers (UbiComp 2018), pp. 251-2	CM International and Ubiquitous
	<u>Harsh Sinha</u> and Pawan K. Ajmera. Interweaving Convolutions: Audio Classification . KDD Deep Learning Day, 24th ACM SIGKE Conference on Knowledge Discovery and Data Mining (KDD 2018	D International

RESEARCH EXPERIENCE	CSIR - Central Electronics Engineering Research Institute, Pilani Mentor: Dr. Santanu Chaudhury (Director, IIT Jodhpur) Explored the immense potential of Generative Adversarial Networks	July 2018 - Dec 2018 (GANs) to generate 31	
	band hyperspectral images from RGB images employing the idea of neural oscillations to train GANs.		
	Samsung R&D Institute, Noida Mentors: Mr. Chetan Chauhan, Mr. Ashish Thakur	Summer 2017	
	Proposed a Convolutional Encoder Decoder Network for End to End Image Generation using Tensorflow. The architecture was trained to detect blurred region of images in a pixel-by-pixel manner without any external estimation techniques.		
	CSIR - Central Electronics Engineering Research Institute, Pilani Mentor: Dr. J. L. Raheja (Chief Scientist, Machine Vision Lab) Jun 2015 - Feb 20		
	Using an input depth map data streams from a kinect sensor, a skeleton-tracking algorithm was applied for fall detection. The relative normalized positions of joints was achieved using a torso-centered coordinate system.		
PROJECTS	Reducibility among Combinatorial Problems ViSoft: Visualization in Software Testing	Aug 2019 - Oct 2019 Aug 2019 - Oct 2019	
Machine Learning	A Variational Training perspective to GANs for Hyperspectral Jan 2018 - Dec 2018 Image Generation		
Computer Vision	Detection of Amur Tigers in the Wild	Aug 2019 - Oct 2019	
NUD	Query Based Deep Face Image Retrieval	Jan 2019 - May 2019	
NLP	Real-time Twitter Sentiment Analysis	Jan 2019 - May 2019 Jun 2018 - Dec 2018	
Spring MVC	Estate Security Management System	Juli 2018 - Dec 2018	
TECHNICAL SKILLS	Languages & Software: PyTorch, TensorFlow, Keras, Python, MATLAB, Java, C/C++ Courses: Object Oriented Analysis and Design, Data Mining, Machine Learning MOOCs: Machine Learning, Data Science Specialization		
HONORS &	Fellow, Department of Intelligent Systems	Jan 2021	
AWARDS	Awarded to a select few doctoral students across the School of Computing and Infor- mation at the University of Pittsburgh.		
	UbiComp 2018 Travel Grant Awarded a travel reimbursement of USD 600 for UbiComp '18	Oct 2018	
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PROFESSIONAL SERVICE	Reviewer : IET Biometrics, BMVC 2020, WACV 2021		
EXTRA	Johns Hopkins University		
CURRICULAR ACTIVITIES	Community Teaching Assistant. Responsible for supporting student learning on discussion forums at Coursera for the courses Exploratory Data Analysis and Reproducible Research		
	Prayag Sangeet Samiti, Allahabad Sangeet Prabhakar in Tabla. Equivalent to Bachelor of Music in Vocal/Instrumental.		