

Education	<b>University of Maryland, College Park</b> <i>Ph. D. in Computer Science</i> Advisor: Abhinav Shrivastava Aug 2021 -
	<b>University of Maryland, College Park</b> <i>M.S. in Computer Science</i> Advisor: Abhinav Shrivastava Aug 2019 - May 2021
	<b>Netaji Subhas Institute of Technology, University of Delhi</b> <i>B.E. in Information Technology</i> Aug 2013 - May 2017
Employment	<b>Paralleldots, Inc.</b> <i>Senior Data Scientist</i> Nov 2018 - May 2019 <i>Data Scientist</i> Jun 2017 - Oct 2018 <i>Data Science Intern</i> Jun 2015 - Jun 2017 Developing machine learning and deep learning models in multiple domains like computer vision, NLP and speech recognition and applying them in sectors of market research and healthcare.
	<b>Indrprastha Institute of Information Technology</b> <i>Research Associate</i> May 2017 - May 2019 Exploring computational models to segment brain MRI and detecting bone marrow cancer (Myeloma) from microscopic images of white blood cells.
	<b>CMSC 828I: Advanced Techniques in Visual Learning and Recognition</b> Teaching Assistant with Abhinav Shrivastava Fall 2020
Teaching Experience	<b>CMSC 498L: Introduction to Deep Learning</b> Teaching Assistant with Abhinav Shrivastava Spring 2020
	<b>CMSC 250: Discrete Structures</b> Teaching Assistant with Jason Filippou Fall 2019
Skills	<b>Programming Languages:</b> Python, C, C++ <b>Frameworks and Tools:</b> PyTorch, Numpy, Scikit-learn, Pandas, Open-CV, Lasagne, Theano
Journal Papers (Link in title)	<b>Deep Multimodal Learning for the Diagnosis of Autism Spectrum Disorder</b> M Tang, P. Kumar, H. Chen, A. Shrivastava <i>Journal of Imaging</i> , 2020
Conference Papers (Link in title)	<b>U-Segnet: Fully convolutional neural network based automated brain tissue segmentation tool</b> P. Kumar, P. Nagar, C. Arora, A. Gupta <i>International Conference on Image Processing (ICIP)</i> , 2018 <b>Boosted cascaded convnets for multi-label classification of thoracic diseases</b> P. Kumar*, M. Grewal*, M.M. Srivastava <i>International Conference Image Analysis and Recognition (ICIAR)</i> , 2018 <b>RADnet: Radiologist level accuracy using deep learning for haemorrhage detection in CT scans</b> M. Grewal, M.M. Srivastava, P. Kumar*, S. Varadarajan* <i>International Symposium of Biomedical Imaging (ISBI)</i> , 2018
Ongoing Projects	<b>Sub-action discovery in untrimmed videos using motif mining</b> Mining common sub-actions across actions and discovering them in untrimmed videos. <b>Benchmarks for evaluating open-world performance of recognition models</b> Analysing the generalisation of models to different kind of novelties in the wild. <b>Predicting the effect of climate change on vegetation</b> Studying the impact of climate change on agriculture land using temporal satellite images
Workshop Organization	<b>Dealing with Novelty in the Open World</b> <i>Winter Conference on Applications of Computer Vision (WACV)</i> , 2022
Reviewing	CVPR (2020-2022), ICCV (2021), AAAI (2021)