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Education	<b>University of Maryland, College Park</b> <i>M.S. in Computer Science</i>	Aug 2019 -
	<b>Netaji Subhas Institute of Technology, University of Delhi</b> <i>B.E. in Information Technology</i> First Class with Distinction (CGPA: 8.26)	Aug 2013 - May 2017
Employment	<b>Paralleldots, Inc.</b> <i>Senior Data Scientist</i> <i>Data Scientist</i> <i>Data Science Intern</i>	Nov 2018 - May 2019 Jun 2017 - Oct 2018 Jun 2015 - Jun 2017
	Developing machine learning and deep learning models in multiple domains like NLP, computer vision and speech recognition and applying them in sectors of market research and healthcare.	
	<b>Indraprastha 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. (With Dr Anubha Gupta)	
Skills	<b>Programming Languages :</b> Python, C, C++ <b>Frameworks and Tools:</b> PyTorch, Numpy, Scikit-learn, Pandas, Open-CV, Lasagne, Theano	
Conference Papers (PDF link in title)	<b>U-Segnet: Fully convolutional neural network based automated brain tissue segmentation tool</b> <i>P. Kumar, P. Nagar, C. Arora, A. Gupta</i> <i>International Conference on Image Processing (ICIP), 2018</i>	
	<b>Prototypical metric transfer learning for continuous speech keyword spotting with limited training data</b> <i>H. Seth*, P. Kumar*, M.M. Srivastava</i> <i>International Conference on Soft Computing (SOCO), 2019</i>	
	<b>Boosted cascaded convnets for multi-label classification of thoracic diseases</b> <i>P. Kumar*, M. Grewal*, M.M. Srivastava</i> <i>International Conference Image Analysis and Recognition (ICIAR), 2018</i>	
	<b>RADnet: Radiologist level accuracy using deep learning for haemorrhage detection in CT scans</b> <i>M. Grewal, M.M. Srivastava, P. Kumar*, S. Varadarajan*</i> <i>International Symposium of Biomedical Imaging (ISBI), 2018</i>	
	<b>Anatomical labeling of brain CT scan using multi-context nearest neighbor relation networks</b> <i>S. Varadarajan, M.M. Srivastava, M. Grewal*, P. Kumar*</i> <i>Poster in International Symposium of Biomedical Imaging (ISBI), 2018</i>	
	<b>A big data analysis framework using Apache spark and deep learning</b> <i>A. Gupta, H. Thakur, R. Shrivastava, P. Kumar, S. Nag</i> <i>International Conference of Data Mining (ICDM) workshop on DSDBA , 2017</i>	
Preprints	<b>LeukoNet: DCT-based CNN architecture for classification of normal vs Leukemic blasts in B-ALL Cancer</b> <i>S. Mourya*, S. Kant*, P. Kumar*, A. Gupta, R. Gupta</i> <i>Under review</i>	
Additional Projects	<b>SmartGaze: Analysing eye tracking videos to detect hotspots.</b> Used patch based template matching technique to gather insights as to where a user tends to focus while shopping in a retail store and in a mobile application. <b>LeukoGAN: A dual representative adversarial network for cancer cell nuclei classification</b> Experimenting with bio-inspired GAN to generate synthetic images of cells to improve classification. <b>Deduplication of large image dataset</b> Caught duplicate images by detecting key points and pair-wise matching them by extracting the point's descriptors from a pre-trained network. <b>Detection of Tooth Caries from Bitewing Radiographs</b> Experimented with LSTM based approach to detect dental caries from an X-Ray. <b>Skin Lesion Analysis towards Melanoma Detection</b> Tested out various architectures using CNNs and autoencoders to detect skin cancer (Melanoma) from microscopic images.	