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RESEARCH INTERESTS	Computer Vision, Deep Learning, Reinforcement Learning My interests lie in the scope of reducing supervision in deep learning systems. Along these lines, my research includes few-shot target re-identification, weakly supervised learning from videos and improving sample efficiency in deep reinforcement learning algorithms.
EDUCATION	University of California , Riverside, CA, USA Sept 2018 - Present <i>PhD</i> , Electrical and Computer Engineering Advisor: Dr. Amit K. Roy-Chowdhury GPA: 3.97/4.0 Jadavpur University , Kolkata, WB, India Aug. 2014 - June 2018 <i>Bachelor of Engineering</i> , Electronics and Telecommunications Engineering Advisor: Dr. Ananda S. Chowdhury GPA: 9.37/10.00
EXPERIENCE	Graduate Student Researcher April 2019 - Present Video Computing Group University of California, Riverside Advisor: Dr. Amit K. Roy-Chowdhury • Reducing supervision in visual recognition models – Cross-domain adaptation of policies using imitation learning – Few-shot/semi-supervised learning of re-identification models WISE Research Intern May 2017 - July 2017 DAAD:German Academic Exchange Service University of Hildesheim Advisor: Dr. Dr. Lars Schmidt-Thieme • Channel masking for multivariate time series shapelets: An algorithm for classifying multivariate time series via a shapelet learning scheme using channel masks to automatically discount noisy channels. Undergraduate Student Researcher Aug. 2017 - June 2018 Imaging, Vision & Pattern Recognition Group Jadavpur University Advisor: Dr. Ananda S. Chowdhury • Segmentation of aortic vessels: A level set based technique for identification and segmentation of aortic media-adventitia from fetal ultrasound images
PUBLICATIONS	• Raychaudhuri, D.S. and Roy-Chowdhury, A.K., 2020. Exploiting Temporal Coherence for Self-Supervised One-shot Video Re-identification. <i>European Conference on Computer Vision 2020</i> • Raychaudhuri, D.S. , Grabocka, J. and Schmidt-Thieme, L., 2017. Channel masking for multivariate time series shapelets. arXiv preprint arXiv:1711.00812.
HONORS & AWARDS	• Dean's Distinguished Fellowship Award , University of California, Riverside • DAAD-WISE Fellowship Award , Research intern
GRADUATE COURSEWORK	• Advanced Computer Vision • Machine Learning • Information Theory • Stochastic Processes • State & Parameter Estimation Theory • Convex Optimization • Sparse Signal Processing • Mathematical Methods in EE
COMPUTER SKILLS	Python, Java, C, PyTorch, Matlab, OpenCV, sklearn