# Gagan Kanojia
Research Engineer II, OLA Electric Mobility Pvt. Ltd.

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| CONTACT INFORMATION | T-2, 401, 17th D Main Rd, 5th block, Koramangala, Bengaluru, Karnataka, 560095 | ☎ (+91) 9173165219 <br> ✉ gagan.kanojia1@gmail.com <br> ✿ gagankanojia.github.io |

**EDUCATION**

**Indian Institute of Technology Gandhinagar**    May 2015 - June 2020
*Ph.D., Electrical Engineering*
Advisor: Dr. Shanmuganathan Raman
CPI : 9.39/10

**Indian Institute of Technology Gandhinagar**    2010-2014
*B.Tech., Electrical Engineering with Minor in Computer Science*
CPI : 7.72/ 10

**Kendriya Vidyalaya No.4, Gwalior (M.P.)**    2009
High School Certificate (CBSE) 85.4%

**Khushal Vidya Peeth, Gwalior (M.P.)**    2007
Secondary School Certificate (CBSE) 85%

**WORK EXPERIENCE**

**OLA Electric Mobility Pvt. Ltd.**    August 2020 - Present
*Research Engineer II*
At OLA Electric, I mainly work on computer vision related problems which involve monocular videos and require computationally efficient solutions. Two patent applications based on my works done here are under preparation.

**eClerx Services Limited**    May 2014 - May 2015
*Senior Software Engineer*

**RESEARCH INTERESTS**

My research interests lie in **Deep Learning, Computer Vision,** and **Image Processing**. During my Ph.D., I worked on problems which involve moving objects present in videos or images captured from different view-points. I am actively working with deep neural networks for images, videos, and image sequences. I have worked on a variety of computer vision related problems like **image classification, action recognition, object detection, image segmentation,** and **depth estimation**. I also like to explore the advantages of using multiple images of a scene over a single image in different scenarios.

**AWARDS**

**TCS Research Scholarship**    July 2016 - July 2020

**Best Paper Runner-up**    December 2019
Awarded for "Exploring Temporal Differences in 3D Convolutional Neural Networks."
at National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), 2019

**The Spot Award**    September 2014
Awarded for demonstrating excellence in the assigned tasks at eClerx Services Ltd.

Technical Skills   Programming Languages: C, C++, Python, MATLAB
Libraries and Scripts: PyTorch, Tensorflow, OpenCV, Numpy

Publications

**Gagan Kanojia**, and Shanmuganathan Raman. "Learning to Sort Image Sequences via Accumulated Temporal Differences." [Under review in IEEE Transactions on Image Processing]

Sudhakar Kumawat, **Gagan Kanojia**, and Shanmuganathan Raman. "Shuffleblock: Shuffle to regularize convolutional neural networks." [To be submitted]

**Gagan Kanojia**, and Shanmuganathan Raman. "Simultaneous Detection and Removal of Dynamic Objects in Multi-view Images." In Winter Conference on Applications of Computer Vision (WACV), 2020.

**Gagan Kanojia**, and Shanmuganathan Raman. "MIC-GAN: Multi-view assisted Image Completion using Conditional Generative Adversarial Networks." In Twenty Sixth National Conference on Communications (NCC), 2020.

**Gagan Kanojia**, Sudhakar Kumawat, and Shanmuganathan Raman. "Exploring Temporal Differences in 3D Convolutional Neural Networks." In National Conference on Computer Vision, Pattern Recognition, Image Processing and Graphics (NCVPRIPG), 2019. (**Best Paper Runner-up Award**)

**Gagan Kanojia**, Sudhakar Kumawat, and Shanmuganathan Raman. "Attentive spatio-temporal representation learning for diving classification." In IEEE Conference on Computer Vision and Pattern Recognition Workshops (CVPRW), 2019.

**Gagan Kanojia**, and Shanmuganathan Raman. "DeepImSeq: Deep image sequencing for unsynchronized cameras." In Pattern Recognition Letters 117 (2019): 9-15.

**Gagan Kanojia**, and Shanmuganathan Raman. "Patch-based detection of dynamic objects in CrowdCam images." In The Visual Computer 35.4 (2019): 521-534.

**Gagan Kanojia**, and Shanmuganathan Raman. "Postcapture focusing using regression forest." In IEEE Signal Processing Letters 24.6 (2017): 751-755.

**Gagan Kanojia**, Sri Raghu Malireddi, Sai Chowdary Gullapally, and Shanmuganathan Raman. "Who Shot the Picture and When?." In International Symposium on Visual Computing, pp. 438-447. Springer, Cham, 2014.

**Gagan Kanojia**, and Shanmuganathan Raman. "FacialStereo: Facial depth estimation from a stereo pair." In Computer Vision Theory and Applications (VISAPP), 2014 International Conference on, vol. 3, pp. 686-691. IEEE, 2014.