Syed Ashar Javed

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♀ stillbreeze.github.io/

https://github.com/stillbreeze

Education

2018 - 2019

■ Carnegie Mellon University, Pittsburgh M.S. in Computer Vision (4.11/4.33)

2012 - 2016

■ Jamia Millia Islamia, New Delhi B.Tech. in Computer Science (9.1/10)

Relevant Work Experience

Feb '20 - Current

- PathAI. Machine Learning Engineer
 - Working on machine learning based methods for computational pathology.

Jan '19 - Dec '19

- Amazon Lab126. Student Researcher (Capstone)
 - Worked with Prof Michael Kaess on online stereo camera calibration for visual SLAM using factor graph optimization.

May '19 - Aug '19

- **PathAI.** Machine Learning Intern
 - Worked on end-to-end learning models on gigapixel images for computational histopathology.

Dec '19 - May '19

- Machine Learning Dept, CMU. Research Assistant
 - Worked with Prof Katerina Fragkiadaki on 3D probabilistic language grounding using generative models.

Mar '17 - Apr '18

- **CVIT lab, IIIT Hyderabad.** Research Assistant.
 - Formulated a self-supervised approach for unsupervised visual grounding of phrases and obtained state-of-art results on multiple datasets. Work presented at NeurIPS workshop 2018.
 - Trained a state-of-art small obstacle segmentation model for autonomous vehicles using as few as 135 frames by exploiting structure in the road scene. Work presented at ICRA 2018.
 - Formulated a Gaussian Process based synthetic data generation scheme and built an online prediction model for real-time video stabilization in virtual camera simulation.

Jun '16 – Feb '17

- **Cube26.** Research Engineer
 - Implemented multiple papers in the neural art domain for real-time stylization of images. Models deployed to tens of thousands of devices.
 - Incorporated object-level contextual information to improve scene classification in CNNs. Work presented at CVPR 2017 workshop.
 - Explored LDA and Bayesian Optimization using GP & Thomson Sampling for recommendation systems.
 - Benchmarked LSTM models for spoken language identification in speech signals obtained from videos.

Jun '14 - Jul '14

- **Reliance Industries.** Summer Intern
 - Built a vision based fire detection system for open industrial setting.

Publications

- Prabhudesai, M., Fish, H.-Y. T., Javed, S. A., Harley, A., Sieb, M., & Fragkiadaki, K. (2019). **Embodied Language Grounding**. *Under review*.
- Achary, S., Poddatur, N. S., Javed, S. A., Vinjamoori, A., Gandhi, V., & Namboodiri, A. (2019). CineFilter: Unsupervised Adaptive Filtering for Real Time Autonomous Camera Systems. *Under review*.
- Javed, S. A., Saxena, S., & Gandhi, V. (2018). Learning Unsupervised Visual Grounding Through Semantic Self-Supervision. IJCAI 2019, NeurIPS 2018 ViGIL Workshop.
- Gupta, K., Javed, S. A., Gandhi, V., & Krishna, K. M. (2018). MergeNet: A Deep Net Architecture for Small Obstacle Discovery. *ICRA* 2018.
- Javed, S. A. & Nelakanti, A. K. (2017). **Object-Level Context Modelling For Scene Classification with Context-CNN**. *CVPR 2017 SUN Workshop*.
- Ahmad, M., Ahmad, F., & Javed, S. A. (2017). Cryptanalysis of an asymmetric image cryptosystem based on synchronized unified chaotic system and CNN. In *Icicc* 2017.

Skills

Languages

- \blacksquare Python, C, C++, Javascript, Matlab, SQL, HTML.
- Tools OpenCV, Tensorflow, Theano, Keras, PyTorch, Numpy/Sklearn, Matplotlib, Django.