Syed Ashar Javed

✉ sajaved@andrew.cmu.edu   🌐 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 graphs.
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. Worked with Prof Vineet Gandhi on the following problems: – Self-supervised approach for unsupervised visual grounding of phrases with state-of-art results. – State-of-art small obstacle segmentation model for autonomous vehicles using as few as 135 frames. – Gaussian Process based synthetic data generation scheme and a auto-regressive model for smoothing virtual camera trajectories.
Jun '16 – Feb '17	**Cube26.** Research Engineer – Implemented papers for real-time image stylization. Models deployed to tens of thousands of devices. – Incorporated object-level contextual information to improve scene classification in CNNs. – Explored LDA and Bayesian Optimization using GP & Thomson Sampling for recommendation systems.
Jun '14 – Jul '14	**Reliance Industries.** Summer Intern Built a vision based fire detection system for open industrial setting.

Publications

Embodied Language Grounding with Implicit 3D Visual Feature Representations
CVPR 2020
Mihir Prabhudesai, Hsiao-Yu Fish Tung, Syed Ashar Javed, Adam Harley, Maximilian Sieb, Katerina Fragkiadaki

CineFilter: Unsupervised Adaptive Filtering for Real Time Autonomous Camera Systems
Under Review
Sudheer Achary, KL Moorthy, Syed Ashar Javed, Nikita Shravan, Vineet Gandhi, Anoop Namboodiri

Learning Unsupervised Visual Grounding Through Semantic Self-Supervision
IJCAI 2019, NeurIPS 2018 ViGIL Workshop
Syed Ashar Javed, Shreyas Saxena, Vineet Gandhi

MergeNet: A Deep Net Architecture for Small Obstacle Discovery
ICRA 2018
Krishnam Gupta, Syed Ashar Javed, Vineet Gandhi, K Madhava Krishna

Object-Level Context Modelling For Scene Classification with Context-CNN
CVPR Workshop 2017
Syed Ashar Javed, Shreyas Saxena, Vineet Gandhi

Cryptanalysis of asymmetric image cryptosystem based on synchronized unified chaotic system
ICICC 2017
Musheer Ahmad, Faiyaz Ahmad, Syed Ashar Javed

Skills

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