

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 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.