Ashar Ali

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Objective

Graduate Student in ECE specializing in Machine Learning Algorithms for images, text and audio data seeking Full Time Positions starting Summer 2019.

Education

Georgia Institute of Technology | Atlanta, GA, USA *August 2017 – May 2019*
Master of Science in Electrical and Computer Engineering, **GPA** 3.68/4.00

Indian Institute of Information Technology | Allahabad, India *July 2012 – June 2016*
Bachelor of Technology in Electronics and Communications Engineering, **GPA** 8.65/10.00

Skills

Programming: Python, C++, MATLAB, SQL **Technologies:** Tensorflow, PyTorch, ROS, Keras, Pandas, OpenCV
Interest Areas: Deep Learning, Computer Vision, CNNs, RNNs, GANs.
Relevant Coursework: Statistical Machine Learning, Advanced Digital Signal Processing, Linear and Nonlinear Systems, Advanced Computer Vision, Linear Algebra, Data Structures and Algorithms.

Professional Experience

Honda Research Institute USA, Inc| Mountain View, CA, USA
Research Intern *August 2018 – December 2018*
Human Activity Recognition and Trajectory Prediction
- Devised a unified framework to recognize pedestrian activities and predict their future trajectories in monocular videos.
- Built automatic annotation pipelines for monocular 2D data using outputs from lidar-based detection and tracking.

R-DEX Systems, Inc| Greater Atlanta Area, GA, USA
Deep Learning Intern (Robotics) *May 2018 – July 2018*
RGB-D Pose Estimation
- Developed a real-time platform for segmented detection and 3D pose estimation of industrial warehouse objects to facilitate autonomous navigation of tugger carts.

ZS Associates| New Delhi, India
Business Technology Analyst *August 2016 – May 2017*
Data Engineering
- ETL Development to warehouse sales data of a US Pharmaceutical client into organized data marts.
- Recognized with the *'Project Champions Award'* for seamless contribution to the Commercial Analytics Hub.

Academic Research/Teaching Experience

Georgia Institute of Technology | Atlanta, GA, USA
Student Researcher / Intelligent Vision and Automation Laboratory *August 2017 – May 2019*
Semantic Depth Segmentation and 3D Human Pose Estimation
- Designed an automatic annotation policy and a two-stage pipeline to perform 3D pose estimation from depth images.
- Improved state of the art for 3D Pose Estimation by 10% on *UBC Human Pose* and *Berkeley MHAD.* [**Github**]

Graduate Teaching Assistant *January 2018 – May 2019*
- Responsible for design of assignments, holding office hours for the Graduate courses:
  CS- 6476 Computer Vision (Spring 2018) and *CS- 7641 Machine Learning* (Spring 2019)

Ecole Polytechnique Federale de Lausanne| Lausanne, Switzerland
Bachelors Thesis Researcher *March 2016 – May 2016*
2D Human Pose Estimation
- Analyzed and implemented articulated structure-based pose estimation algorithms on indoor retail store image dataset.
- Programmed a Qt-Based GUI as an in-house dataset annotation tool.

Projects

MusiciGAN *Spring 2018*
- Created a *Conditional Generative-Adversarial Network* to generate music based on the sentiments extracted from song lyrics [Github].

Hexapod *Spring 2014*
- Successfully mimicked insect locomotion using Arduino MEGA 2560. [**Youtube**][**Github**]

Leadership Experience

Effervescence, IIIT Allahabad *Fall 2014*
- Overall Coordinator of the annual cultural festival leading a team of 200 students responsible for marketing, sponsorship, publicity and organization of the four-day long event.

Badminton Team, IIIT Allahabad *Fall 2014*
- Served as Vice-Captain of the Undergraduate Badminton Team participating in multiple state/national tournaments.