Ashar Ali

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Education

Georgia Institute of Technology | Atlanta, GA *August 2017 – December 2018*
Masters of Science in Electrical and Computer Engineering, **GPA** 3.76/4.00

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, Keras, ROS, Qt, Teradata
Research Interests: Deep Learning, Computer Vision, Data Science
Relevant Coursework: Statistical Machine Learning, Advanced Digital Signal Processing, Linear and Nonlinear Systems.

Experience

Georgia Institute of Technology | Atlanta, GA
Student Researcher / Intelligent Vision and Automation Laboratory *August 2017 – December 2018*
Semantic Depth Segmentation and 3D Human Pose Estimation
- Modified *Segnet-32* to segment depth images of human body; robust results on *UBC Human Pose* and *Berkeley MHAD.*
- Performed Regressive estimation of 3D joints from the point clouds of segmented depth images.

Graduate Teaching Assistant *January 2018 – May 2018*
- CS- 6476 *Computer Vision* (Online)-Graduate level course to provide an introduction to computer vision fundamentals.

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.

Ecole Polytechnique Fédérale de Lausanne| Lausanne, Switzerland
Bachelor's Theses Research *March 2016 – May 2016*
2D Human Pose Estimation
- Implemented articulated structure based algorithms for estimation of human body postures from static images.
- Developed an interactive GUI to create a database of human joint locations in static images.

Institute for Development and Research in Banking Technology| Hyderabad, India
Research Intern *May 2015 – December 2015*
Document Forgery Detection
- Devised an algorithm to extract pantograph region present in Indian bank cheques based on texture patterns.
- Published *Detection and extraction of pantograph region from bank cheque images* in IEEE International Conference on Signal Processing and Integrated Networks (SPIN), Noida, U.P. India, Feb 2016.

Projects

Facial Expression Recognition *Spring 2015*
- Classification of Cornell AMP lab faces into 4 expression categories with 91% accuracy.

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

Experience

Effervescence, IIIT Allahabad | Atlanta, GA *January 2014 – December 2014*
Overall Coordinator
- Successfully coordinated the management, marketing and publicity of the annual cultural festival Effervescence 2014.