Ashar Ali

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EDUCATION

Georgia Institute of Technology, Atlanta, Georgia — Aug 2017 - Dec 2019
M.S. in Electrical and Computer Engineering
Coursework: Advanced DSP, Intro to Robotics and Automation, Linear Systems and Controls.

Indian Institute of Information Technology Allahabad, U.P., India — Jul 2012- Jul 2016
B. Tech. in Electronics and Communication Engineering
- CGPA: 8.65 / 10.00

SKILLS

Languages- C, C++, Python and SQL.
Technology- MATLAB, MS Visual Studio(OpenCV/OpenGL/Kinect), Qt, Teradata and Informatica.
Key Interests- Machine Learning, Computer Vision and Data Science.

EXPERIENCE

Intelligent Vision and Automation Laboratory, Georgia Institute of Technology
Advisor- Dr. Patricio Antonio Vela — Aug 2017-Dec 2017
- Human Pose Estimation Techniques on range images for physiotherapy.
- Implementation of state of the art algorithms on Berkeley MHAD and comparison with new occluded data.

ZS Associates, New Delhi, India — Aug 2016-May 2017
Business Technology Analyst
- 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 (EPFL), Switzerland — Mar 2016-May 2016
Bachelor's Theses at Systemic Modelling Lab (LAMS)
- Developed a fundamental block of an Image Manipulation Framework for analysis of Human body poses.
- Developed a Qt based GUI to create a database of human joint locations in static images.
- Implemented articulated structure algorithms for estimation of human body postures from static images.

Institute for Development and Research in Banking Technology, Hyderabad, India
Project Trainee — May 2015-Dec 2015
- Devised an algorithm to extract rectangular pantograph region present in Indian bank cheques.

PUBLICATION

A. Ali and R. Pal, "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.

ACADEMIC PROJECTS

Human Emotions: A Facial Expression Perspective — Jan 2015 - May 2015
- Led a team of 5 to revamp an existing algorithm based on texture feature extraction, dimensionality reduction, and learning an SVM.
- Used a self-created image database along with a standard one from Cornell University and obtained industry standard accuracy.

Hexapod — Jan 2014 - May 2014
- This robot consisting of a circular chassis and 18 servo – motors (3 in each limb) was programmed using Arduino MEGA 2560 to successfully implement insect locomotion.

LEADERSHIP EXPERIENCE

Effervescence, IIIT Allahabad — Jan 2014 - Oct 2014
- Successfully coordinated the management, marketing and publicity of the annual cultural festival Effervescence 2014 as the Overall Coordinator.

Undergrad Badminton — Jan 2014 - May 2014
- Represented the undergrad badminton team as Vice-Captain in Inter-University Tournaments.