Nushrat Humaira

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EDUCATION

- **Clemson University** Clemson,SC
  Ph.D in Computer Science; GPA: 3.66 *Aug,2017 – present*

- **Bangladesh Uni. of Eng. and Technology(BUET)** Dhaka, Bangladesh
  Bachelor of Science in Computer Sciece and Engineering; GPA: 3.21 *January. 2008 – February. 2013*

EXPERIENCE

- **Clemson University** Clemson,SC
  Graduate Teaching Assistant(Full time) *Aug 2017 - Present*
  - **Programming in C/C++**: Lead teaching assistant and instructor for programming in c/c++
  - **Machine learning**: teaching assistant for machine learning

- **Hi-tech Bangla,Inc** Dhaka, Bangladesh
  Software Developer *March 2013 - Oct 2014*
  - **R&D**: Developing Advanced Radar Control Simulator for Bangladesh Air Force

PROJECTS

- **Review spam detection and opinion mining**: Anomaly Detection and Opinion Mining on Amazon,Yelp Reviews with Hierarchical Attention model and support vector machine
- **Python Interpreter**: built python 2.7 Interpreter with C++11,Flex,Bison
- **Smart Blind Aiding System**: Smart Blind Aiding System Using Arduino embedded Smart Stick and Android Application
- **Data Structure toolkit**: Implemented several data structures and algorithms as requirement of Udacity nanodegree program
- **Community detection in OSN**: Community Detection in Online Social Networks using Apache Spark based on the paper "User Interaction Based Community Detection in Online Social Networks", written by Himel Dev, Mohammed Eunus Ali, and Tanzima Hashem, is implemented with GraphX, graph parallel processing API from Apache Spark project. The implementation has been tested as a distributed, fault-tolerant, graph-parallel, resilient approach.
- **Decentralized server**: Utilizing GPU as decentralized parameter server for faster convergence in distributed deep learning,qualitative analysis in comparison to Horovod
- **Web URL mining**: Analyzing web URL access pattern using MapReduce Framework with Apache Hadoop in cluster
- **Digital Signage implementation**: Digital Media Signage Studio,a client side desktop application for signage content(image,video) develop, edit/update and management

PROGRAMMING SKILLS

- **Languages**:Python 2.7/3.0, C++ 11, C#/WPF4.5, Java SE 6

- **Framework**: Tensorflow(1.4+), Pytorch 0.4.1, Keras(1.2+), Apache Hadoop, Apache Spark(Databricks API)