811 Issaqueena Trl, Apt 710
Central, S.C. 29630

EHSAN SADRFARIDPOUR

(864) 986-1850
esadrfa@g.clemson.edu
github.com/esadr

EDUCATION

Ph.D. in Computer Science	**Clemson University**	Aug 2014 – Dec 2017

Dissertation: Scalable Data Mining Algorithms
Advisor: Dr. Ilya Safro
Research Area: Big Data, Data mining, Machine Learning, Text mining
Relevant coursework: Data Mining, Network Science, Parallel Architectures, Databases

GPA: 3.7/4.0

B.S.C. in Software Engineering	**IAU**	Aug 2001 - Dec 2006

Relevant coursework: Data Structures, Algorithms, Operating systems, Network Programming

RELEVANT EXPERIENCE

Graduate Research Assistant	**Clemson University**	Aug 2014 – Present

- Designed a large scale data mining framework for classification and text mining
- Developed the framework using C++, STL, LibSVM, Metis, AKNN, and PETSc packages
- Improved the performance of large popular benchmark datasets up to 96 times using developed framework

RESEARCH PROJECTS

Data Analytics for Text Mining	**BMW**	Jun 2015 – Present

- Converted the customers' survey text data to numerical form using NLP techniques (Python)
- Reduced the dimensionality of the converted survey data using SVD by 1000 times (C++ and scientific computing library)
- Improved the classification of real world data from BMW by 33%

Data Analytics for Healthcare	**Greenville Health System**	Apr 2015 – Present

- Preprocessed a large and noisy healthcare dataset and integrated it to produce a final table (MySQL)
- Filtered insignificant features using feature selection methods
- Predicted outcomes for a diabetes surgery

SKILLS

Linux, Git, SVN, Bash	C,C++, Python	SQL, TCP/IP
Tensorflow, Scikit-learn, Pandas	MPI, Hadoop, Spark	Deep Learning, Big data

ENGINEERING EXPERIENCE

Senior Technical Engineer	**MCCI**	May 2012 - Dec 2013

- Led the maintenance team to minimize service downtimes by 40%
- Redesigned the service flow to improve the quality of Internet service for 3 million online users
- Planned successful repairs and upgrades for the internal infrastructures

Technical Engineer	**Huawei**	May 2009 - Apr 2012

- Improved service quality by planning, documenting, and executing service migrations and commissions
- Configured and troubleshot Value-Added Services including Wireless Application Protocol and MMS
- Managed Linux servers and databases for a billing system with capacity for 20 million users

Software Engineer	**Safa Group**	Jan 2007 - Apr 2009

- Saved 5% of IT budget by developing the web-based ticketing system
- Configured and managed databases and virtual private networks for the company's headquarter

PUBLICATION

E. Sadrfaridpour, I. Safro, A. Luckow *Algebraic multigrid-inspired support vector machines*, submitted, 2016

AWARDS AND SERVICES

School of Computing Graduate Student Association, Treasurer	2016 – 2017
Clemson Scholar-Athlete Team of the Collegiate Water Polo Association	2015 – 2016
Best Annual Technical Engineer of Value-Added Services Support Team	Dec 2011