Avery Able

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EDUCATION

Technology University, Buffalo, KS - *PhD Candidate, Computer Science*

August 2010 - August 2015

Thesis Topic: Neural Networks Classification

Advisor: Professor J. R. Richardson

Peterson Presidential Scholarship in Science

Technology University, Buffalo, KS - *Masters, Computer Science*

September 2007 - September 2009

GPA 3.86

Advisor: Professor T. M. Praki

National Institute of Technology University - *Bachelors, Computer Science*

September 2003 - September 2007

GPA 3.8

Regents' and Chancellor's Scholar

Dean's List 2003-2007

EXPERIENCE

Technology University Research Lab, Buffalo, KS - *Research Intern*

June 2014 - August 2015

- Designed a general framework based on tensor decomposition to consistently learn a large group of discriminative models with stated variables such as Neural Networks, Mixture of Classes, BCA and Latent Condensed Random Fields.
- Provided generalization bounds in neural networks based on tensor methods of factorization.

Tehclo Group, Chicago - *Software Engineer Intern*

September 2008 - December 2008

- Created a data integrity scheme based on graph model selections with polynomial sample complex structures.
- Implemented theoretical and experimental analysis using inclusive data manipulation schemes.

Techlo Group, Chicago - *Software Engineer Intern*

June 2007 - August 2007

- Implemented a dense pipeline for images using tracking, structure-from-motion and multi-view software
- Design and implementation of   data mining software

AWARDS

Research Excellence Award, Technology University, 2014

Research Excellence Award, Technology University, 2012

Provost Fellowship, Technology University, 2012

PUBLICATIONS

Generalization bounds for Neural Networks through Tensor Factorization

N. Jenso, L. Benson, J. Iceberg, and B. Shenkar, Preprint, July 2015

Mixed Models in Social Networks: Applications with Morse

B. Shenkar, J. Iceberg, and L. Benson, February 2015

Tensor Membership Methods for Learning Mixtures of Classes

L. Benson and B. Shenkar, Preprint, Nov. 2014

Methods for Neural Networks with Connectivity Applications

L. Benson and B. Shenkar, Nov. 2014

Multi-Step Randomization CCJS in High Dimensions: Optimization and Decomposition

L. Benson, B. Shenkar, and E. Gentry. Neural Information Defracturization Systems (NIDS), Toronto, 2014. *(Full version available on arK)*

Statistical Structure to Ensure Data Pivots in Smart Grid

L. Benson and S. Willis, to appear in AEEE Transactions on Grid, Vol. 8, issue 2, section C.

Statistical Structuration for Smart Grid with False Data Detection

L. Benson and S. Willis, AEEE Power and Energy Network Annual Meeting. Montreal, 2013. *(Full version available on arK)*

Conditional Information in Gusti-Mirkin Mutual Rudolph Grids

L. Benson and S. Willis, Information and Control Journal, C. Crispo, J. Iceberg, B. Bern, and J. Ratner.

A Misbehavior-Tolerant Multipath Routing Protocol for Wireless Network

L. Benson, T. Pakresh and J. Ratner, International Journal of Wireless Networks.

Game-Theory Approaches for Power Routes in Tridirectional Cooperatives

N. Jenso, T. Pakresh, L. Benson, IEBFCD Wireless Communication Symposium, Melbourne, 2012.

WORKSHOPS

2013 SDF Workshop Referee, Las Diego, TX

2012 ABA Workshop Attendee, Buffalo, KS

2012 SDF Workshop Referee, Las Diego, TX

2010 PSA Workshop Attendee, Buffalo, KS

PROFESSIONAL ACTIVITIES

Teaching Assistant   Probability and Statistics I and II, Technology University 2009-2015

Teaching Assistant   Estimation Theory, Technology University 2011-2015

Secretary   Technology University Engineering Society 2012-2013

Member   Technology University Engineering Society 2009-2015

SKILLS

Technical: MATLAB, C/C++, VC++, Python, LATEX, Java, Python, JavaScript

Interpersonal Skills: Time management, problem-solving skills, adaptability, strong written & spoken communication, presentations, inter-disciplinary research

INTERESTS

Hiking, Swimming, Cross-Country Skiing, Furniture Restoration, Jazz