Reyhaneh Abdolazimi

Machine Learning Engineer, Syracuse, NY · (315) 439-9999 · rabdolaz@data.syr.edu

Research Interests. Graph ML, Machine Learning, Deep Learning, Generative AI, Social Network Analysis, NLP, and Data Augmentations.

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RESEARCH

• Data Lab [data.syr.edu]

Mentor: Dr. Reza Zafarani (Syracuse University)

1) Proposed a noise-enhanced community detection framework that improves communities detected by existing community detection methods; 2) Introduced a noise-enhanced link prediction framework that improves the links predicted by current link prediction heuristics; 3) Presented two tutorials about noise enhancement techniques and applications that get benefit from noise; 4) Introduced a noise-enhanced augmentation technique in Graph Neural Networks to increase accuracy in classification tasks.

School of Computer Engineering, Iran University of Science and Technology

Mentor: Dr. Hassan Naderi

1) Introduced a method to find connected components(CCs) of big graphs with fixed MapReduce rounds; 2) Proposed a preprocessing method that reduces 99% of the volume of large graphs to facilitate the detection of CCs.

SELECTED PUBLICATIONS

 Noise-Enhanced Augmentation in Graph Neural Networks

Reyhaneh Abdolazimi, Reza Zafarani *In Review.*

 The Advantages of Adding Noise Reyhaneh Abdolazimi, Reza Zafarani TheWebConf (WWW) 2023.

• Noise Enhancement: Techniques and Applications

Reyhaneh Abdolazimi, Reza Zafarani *SDM* 2022.

• Noise-Enhanced Unsupervised Link Prediction

Reyhaneh Abdolazimi, Reza Zafarani *PAKDD* 2021.

• Noise-Enhanced Community Detection Reyhaneh Abdolazimi, Shengmin Jin, Reza Zafarani HT 2020.

EDUCATION

- Ph.D. Student Computer Science
 Syracuse University
 2017- Spring 2024
- M.Sc. Computer Software Engineering
 Iran University of Science and Technology March 2015
- B.Sc. Computer Software Engineering
 Iran University of Science and Technology May 2012

SKILLS

• Programming

EXPERIENCE

Python, Java, C, C++, Shell Scripting, Haskell, Matlab

• Libraries

PyTorch, TensorFlow, Scikit-learn, Pandas, Numpy

Database & Tools
 MySQL, Neo4j, MongoDB, Hadoop, Cloudera

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• Simiagaran Company

Big Data Engineer Intern- Tehran, Iran Revamped Big Data infrastructure at Mellat Bank using Cloudera Manager and Hadoop, resulting in streamlined data management. Achieved more efficient loan application processing and introduced innovative customer categorization, expediting loan approvals, 2015.

Miras Startup

Data Scientist Intern — Tehran, Iran Sentiment Analysis: Diagnosed the role of people in influencing precious metals prices by analyzing predictions about metal prices on social media (Python), 2015.

Mobin Company

Big Data Engineer Intern — Tehran, Iran Addressed the slow and challenging newspaper grouping task by adopting new tools, including Mahout, Hadoop, Cloudera, and MapR. Accelerated the process, revealing hidden insights and enhancing overall efficiency, 2013.

AWARDS

•	Nominated for HT Best paper award	2020
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Outstanding Student Scholarship from IUST
 2012

Ranked top 0.34% in National University Entrance Exam among nearly 295,000 participants 2008