

Azadeh Abdollah Zadeh

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Summary

A dedicated and accomplished academic professional with an excellent record of accomplishment in teaching and research, passionate about data analytics and continual learning. With Over 5 years of professional experience in fraud risk analysis, I focus on financial data to devise business problem solutions, optimize processes, and automate reporting. My expertise lies in analyzing credit and debit accounts and transactions to identify potential fraud, trends, and patterns, applying statistical analysis to financial datasets for detecting first-party fraud. Additionally, I possess extensive experience in performance tracking, generating tests, and creating dashboards. My ability to apply academic knowledge while collaborating with cross-functional partners from business school makes me well prepared for a role in data analytics, aiming to further develop my skills and knowledge.

Education

• Florida Atlantic University(GPA: 3.76) Ph.D. Candidate in Computer Engineering	Boca Raton, FL Jan 2017-May 2024
• Islamic Azad University (GPA: 3.89) Master’s in computer engineering	Tehran, Iran Sep 2010-Feb 2013
• Islamic Azad University (GPA: 3.56) Bachelor’s in computer engineering	Tehran, Iran Sep 2003-Sep 2008

Research Interests

• Machine Learning	• Deep Learning	• Fraud detection
• Business Analytics	• Big Data	

Coursework

• Analysis of Algorithms	• Deep learning
• Data mining and machine learning	• Advanced Machine learning

Teaching Experience

Ball State University Assistant Teaching Professor of Computer Science	Muncie, IN Sep 2024-Present
Florida Atlantic University Teaching Assistant	Boca Raton, FL Jan 2017-May 2024
Mojtama Fani Tehran (MFT) Computer Science Instructor	Tehran, Iran Sep 2009- Sep 2011

Publications

- **Abdollah Zadeh**, A., Leevy, Joffrey L, and Khoshgoftaar, Taghi M. (2024). One-Class Classification: Advances and Comparisons with Binary Classification. 29th ISSAT International Conference on Reliability and Quality in Design, RQD 2024.
- Leevy, J, Hancock, J, Khoshgoftaar, T. M, **Abdollah Zadeh**, A. (2023). Investigating the Effectiveness of One-Class and Binary Classification for Fraud Detection. Journal of Big Data.
- **Abdollah Zadeh**, A., Leevy, J. L., Khoshgoftaar, T. M. (2022). A Survey on the Choice between Binary Classification and One-Class Classification, Proceedings of the 27th ISSAT International Conference on Reliability and Quality in Design.
- Seliya, N., **Abdollah Zadeh**, A., & Khoshgoftaar, T. M. (2021). A literature review on one-class classification and its potential applications in big data. Journal of Big Data, 8(1), 1-31.
- Altaher, A., Salekshahrezaee, Z., **Abdollah Zadeh**, A., Rafieipour, H., Altaher, A. (2020). Using Multi-inception CNN for Face Emotion Recognition. Journal of Bioengineering Research, 3(1), 1-12.
- Rafieipour, H., **Abdollah Zadeh**, A., Moradan, A., & Salekshahrezaee, Z. (2020). Study of Genes Associated with Parkinson's disease Using Feature Selection. Journal of Bioengineering Research, 2(4).

- Hoda Rafieipour, **Azadeh Abdollah Zadeh**, and Mehrdad Mirzaei. (2020). Distributed Frequent Item set Mining with Bitwise Method and Using the Gossip-Based Protocol. Journal of Soft Computing and Decision Support Systems.
 - Hoda Rafeipour, **Azadeh Abdollah Zadeh**, Masoud Azadi. (2014). A survey on multi-path routing algorithm for Mobile Ad-hoc networks to increase fault tolerance, Proceedings of the 4th International Conference on Information Technology Management, Communication (MITC).
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Technical/Soft Skills/Interests

Hard Skills

- Languages: Python, R, Visual C++, JavaScript
- Data Analysis (Advanced): Excel, Power BI, Tableau
- Data Warehousing (Advanced)
- Machine Learning: Regression, Classification, Clustering
- Databases: MySQL, PostgreSQL, Oracle
- Data Science: scikit-learn, Numpy, Pandas, Matplotlib, Tensor Flow, Keras

Soft skills

- Outstanding communication, interpersonal, organizational, time management, and multitasking skills
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Research/Work Experience

Florida Atlantic University

Research Assistant

Boca Raton, FL

Jan 2017-Present

- Design and implement ensemble fraud detection methods on the Chase credit cards dataset
 - Improved in-depth knowledge of a variety of methods of fraud detection
 - Spearheaded the design and characterized effort for binary/one-class/ensemble classification methods
- Examine and compare different fraud detection methods to rank and find the most efficient method of fraud detection
 - Models ranking based on their efficiency
 - Applied improvement feature engineering methods to enhance up to 80% model efficiency
- Analyze results to identify fraud trends to reduce potential overall risks
- Fraud early detection through monitoring customer credit card activities

Righ Tel (Mobile Network Operator Company)

Data Analyst

Tehran, Iran

Jan 2013-Aug 2017

Irancell (Telecommunications Company)

SQL Programmer

Tehran, Iran

Jan 2011-Sep 2012

Awards

- Reviewer, Journal of Grid Computing Jan 2023
 - Reviewer, Sustainable Computing: Informatics and Systems Journal Aug 2023
 - Florida Atlantic University (FAU) Provost Fellowship Feb 2018
 - Certification of workshop on introduction to Intelligent Systems for processing and analyzing Business Process Management Systems (BMPS) at MICT May 2014
 - Certification of 5th E-Government Administrative System Workshop Jul 2012
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Certificate/Training

IBM Data Analyst Professional Certificate

Mar 2023

Microsoft Certified: Power BI Data Analyst Associate

Jul 2022