

# Elnaz Gholipour

## Senior Lecturer & Researcher in Industrial Engineering

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[Eastern Mediterranean University](#)

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### EDUCATION

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**Eastern Mediterranean University, Research Assistant and Lecturer** Famagusta, Cyprus  
**Ph.D. in Industrial Engineering \_Operations Research, Data Analysis** Spring 2017 – 2022  
**Focus:** Detection of Hidden Patterns of Credit Ratings by ML & Optimization **CGPA: 4.00/4.00**  
*(LAD as a method of ML & multi-criteria optimization is used for constructing Boolean functions to approximate complex data patterns in engineering applications)*  
**Related Coursework:** Integer and Discrete Programming, Linear Optimization, Network Flows, Design and Analysis of Experiments, Stochastic Process, and Applications, Python for Data Science, and Machine Learning, Non-linear Optimization  
**Volunteer Programs;** 1. Artificial Neural Network, electrical department, EMU University  
2. Deep Learning, NYU center for data science.

**University of Hamedan** Hamedan, Iran  
**Master of Accounting and Management** 2007–2010  
**Focus:** Qualitative Data Analysis and Prediction (Price Bubble in Stock Market) **CGPA: 3.85/4.0**  
*(Stochastic Optimization was used to predict the price bubble in the stock market and the impact of investors on generating a price bubble was analyzed)*  
**Related Coursework:** Application of statistics in Accounting and Finance, Statistical Analysis, Methodology & Thesis Preparation, Decision Making in Financial Issues, Management Economics

**Tabriz University** Tabriz, Iran  
**Bachelor of Statistics in Business (Accounting)** 2003-2007  
**CGPA: 3.05/4.00**

### THESIS

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#### Ph.D. Thesis:

- Reconstruction Rating Model of Sovereign Debt by Logical Analysis of Data, Supervisor: Prof.Dr. Bela Vizvari

#### Master Thesis:

- Investigating the impact of institutional investors on the formation of price bubbles, Supervisor: Prof.Dr. Yunes Badvar Nahandi

### PAPERS

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E. Gholipour, A. Bastas, “A state-of-the-art review of neural network applications in pharmaceutical manufacturing: sustainability dimensions”, Journal of Intelligent Manufacturing, **(Q1, Impact Factor:8.5), September 2023.**

E. Gholipour, B. Vizvari, Accepted manuscript,” Comparative Analysis of Breast Cancer by LAD and Supervised ML Techniques”, EURO 2022 Conference. ( **32<sup>nd</sup> conference in Operations Research**). **2022. Aalto University, Finland.**

*(Data collection, model training, and testing were employed over the breast cancer data set, and the optimization techniques were used in activation and loss functions to check the accuracy of predictions for supervised ML algorithms)*

E. Gholipour, B. Vizvári, T. Babaqi, S.Takács, “Statistical analysis of the Hungarian COVID-19 victims” Journal of Medical Virology, vol. 93, no.12, 2021. (**Q1, Impact Factor:12.8, Citation: 13**).2021

(Unsupervised ML technique studied to group the victims of COVID-19 with different characteristics)

E. Gholipour,B. Vizvári ,Z. Lakner “Reconstruction Rating Model of Sovereign Debt by Logical Analysis of Data” Mathematical Problems in Engineering, vol. 2021. (**Q2, Impact factor: 1.43, Citation:3**), 2021

(LAD as a supervised ML; binary classification method, was applied for the detection of CR countries)

E. Gholipour, B. Vizvari, “Credit Rating Agency’s Response to Covid-19 by Logical Analysis of Data,” INew Dynamics in Banking and Finance Journal, pp. 181-190, (**Citation: 1** ), **2021. University of Bedfordshire & EMU.**

E. Gholipour, B. Vizvari, “Ranking of Sovereign Debt by Logical Analysis of Data,” Global Joint Conference on Industrial Engineering and Its Application Areas (GJCIE), PS08.05, pp. 18, (**7<sup>th</sup> International Conference**), **2019. Istanbul Technical University & EMU.**

E.Gholipour, Y.B.Nahandi, “Studying on Institutional Investors` roles at Stock Exchange Listed Corporations Subject to Privatization According to No.44 Material of Basic Law”, **National Congress, Raja University, 2013.**

E.Gholipour, Y.B.Nahandi “Surveying the Effect of Institutional Investor at Generating Price Bubbles,” American Journal of Scientific Research Issue 30, (**ISI, Impact Factor: 3**) **2011.**

E. Gholipour, and M. Mousavi, “Rating criteria, of bank customer validation with Delphi approach,” **1st International Conference on Marketing of Banking Services, (Citation: 3), 2010.**

## **PROJECTS & PAPERS IN PROGRESS**

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E. Gholipour, B. Vizvari, “ Brainwaves for early disease detection ”.

## **WORK EXPERIENCES**

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|--|--------------------|----------------|
| • Lecturer in Data Science training program (remote) | Bremen – Germany   | 2022 - present |
| • Senior Lecturer in Industrial Engineering          | Famagusta - Cyprus | 2022 - present |
| • Research Assistant & Lecturer at EMU University    | Famagusta - Cyprus | 2017 - 2022    |
| • Full-time lecturer at Roshdeye University          | Tabriz -Iran       | 2013 - 2017    |
| • Banker at EN Bank                                  | Tabriz -Iran       | 2009 - 2013    |

## **TEACHING EXPERIENCES**

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- Data Science Industry Training Program
- Industrial Engineering courses (i.e Statistical Application in Engineering, Engineering Economy,...)
- Introduction to Entrepreneurship
- Data Analytics for Business and Pharmaceutical, Introduction to Machine learning
- Statistical Application in Engineering, Mathematics & Its Application

## HONORS AND AWARDS

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- Research Grant, EMU University (Cyprus) 2023
- Research Grant, EMU University(Cyprus) 2022
- Full scholarship award from the Eastern Mediterranean University (Ph.D.) 2018
- TRNC Scholarship (Merit Scholarship, Cyprus) 2017
- High Honor student Scholarship for master Program (Merit Scholarship, Iran) 2008

## RELEVANT SKILLS

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- Highly skilled in statistical operation software SPSS, SQL, & Power BI
- Skilled in language programming with Python (Machine Learning).

## LANGUAGES

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- Azerbaijani (Mother Tongue)
- Persian (Native proficiency)
- English (full professional proficiency)
- Turkish (full professional proficiency)

## RESEARCH INTEREST

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CNN in diagnosis of Cancer  
Deep learning in healthcare system  
Machine learning algorithms and drug manufacturing  
Neural network and marketing strategies for medical industry

## REFERENCES

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Prof. Dr. Bela Vizvari (PhD supervisor)	Email: bela.vizvari@emu.edu.tr
Assist. Prof. Dr. Ali.Bastas (Faculty Member)	Email: ali.bastas@emu.edu.tr
Associate Prof. Dr. Alireza Fazlzadeh	Email:fazlzadeh_acc@yahoo.com
Assist. Prof. Dr. Emine Atasoylu (Chairwoman)	Email: emine.atasoylu@emu.edu.tr
Prof. Dr. Seyedhabibollah Mazaherimousavi	Email: habib.mazhari@emu.edu.tr
Prof. Dr. Kovacs Gergely	Email: kovacs.gergely@edutus.hu