Arman Behnam CV

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[My Publons](#)

[My GitHub](#)

[My LinkedIn](#)

[My Google Scholar](#)

[My ResearchGate](#)

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Education

Research assistant and Computer Science P.h.D student/ College of Computing, Department of Computer Science, Illinois Institute of Technology (January 2023 – Present)

o Research subject: Graph Neural Networks explanation by causal inference

o My advisor is Professor Binghui Wang.

Master of Science in Industrial Engineering/ Department of Industrial engineering, Iran University of Science and technology

(September 2018 – March 2022)

o Overall GPA: 3.44, Dissertation title: "Railway data mining using deep learning with IoT approach"

Relevant Credentials (Specializations):

Data science and applied statistics/ Tosee' institute Supervisor: Dr. [Yaser Zerehsaz](#)   120 hours

Data Science Summer School 2021 Certificate/ by Hertie School Data Science Lab

o Hertie School Data Science Lab   [see credential](#)

Excel Skills for Data Analytics and Visualization Specialization/ by Macquarie University

o Coursera [see credential](#)

Deep Learning Specialization/ by DeepLearning.AI	Coursera [see credential](#)
Natural Language Processing Specialization/ by DeepLearning.AI	Coursera [see credential](#)
Reinforcement Learning Specialization/ by University of Alberta	Coursera [see credential](#)
Basic Recommender Systems/ by Politecnico di Milano	Coursera [see credential](#)
Advanced Recommender Systems/ by Politecnico di Milano	Coursera [see credential](#)
Recommendation Systems with TensorFlow on GCP	Coursera [see credential](#)

An Introduction to Consumer Neuroscience & Neuromarketing/ by Copenhagen Business School

o Coursera 24 hours   [see credential](#)

Neuroscience/ by Interdisciplinary schools   32 hours   [see credential](#)

Bachelor of Science in Industrial Engineering/ Department of Industrial engineering, University of Tehran (September 2014 – July 2018)

o Major GPA: 3.17 / Overall GPA: 3.02, Bachelor thesis: Production planning Bachelor thesis at Tavan Gaz Co. Iran.

Publications

A Behnam, Sasan Azad, Mohammadreza Daneshvar, Amjad Anvari Moghaddam, Mousa Marzband, "Artificial intelligence–enabled Internet of Things technologies in modern energy grids" , A book chapter from IoT Enabled Multi-Energy Systems

DOI: https://doi.org/10.1016/B978-0-323-95421-1.00004-5

A Behnam, Sasan Azad, Mohammadreza Daneshvar, Amjad Anvari-Moghaddam, Mousa Marzband "Data science leverage and big data analysis for Internet of Things energy systems", A book chapter from IoT Enabled Multi-Energy Systems

DOI: https://doi.org/10.1016/B978-0-323-95421-1.00006-9

A Behnam, R Jahanmahin, "A data analytics approach for COVID-19 spread and end prediction (with a case study in Iran)" / Published at "Journal of Modeling Earth Systems and Environment"   DOI: https://doi.org/10.1007/s40808-021-01086-8

o   **Published: January 30th 2021 in Springer Nature**

A Behnam, **A Sarkeshikian**, **MA Shafia**, "A study on IOT Applications and technologies in Logistics", A book chapter from the Communications in Computer and Information Science book series (CCIS, volume 1458),   DOI: https://doi.org/10.1007/978-3-030-89743-7_5

P Mahmoodi, A Behnam, "A comparison between different classification algorithms for predicting metastasis in breast cancer patients"/ Published at "IIIEC 2021"
                    COI: https://en.civilica.com/doc/1160931/

M Samieinasab, SA Torabzadeh, A Behnam, A Aghsami, F Jolai, "Meta-Health Stack; A new approach for breast cancer prediction"/ Published at "Healthcare Analytics" journal
DOI: https://doi.org/10.1016/j.health.2021.100010,   **Published: December 8th 2021 in Elsevier**

Research activities (To be published)

CausalExpaliner; Explaining GNNs by causal identification/ In writing process (To be submitted for ICLR 2023)

Weight-Opt; A novel feature engineering-based framework for optimization/ Under review at "Expert systems with applications" journal (Elsevier)

Machine learning predicts ICU admission of COVID-19 patients/
Under review at "The journal of general internal medicine" journal

Frameworks review for fault detection, classification, and location in power systems using deep learning and Machine Learning (Review manuscript)/ In writing process (To be submitted for "Renewable & Sustainable Energy Reviews" Journal)

Academic Experience

Editor and Reviewer at "American Journal of Lifestyle Medicine"/ SAGE Journals (June 2021 – now)   My name is available here. My review license is here.

Reviewer at "The Journal of Primary Prevention"/ Springer (March 2021 – now)

o   My review license is here.(Peer-Review)

Reviewer at "Journal of General Internal Medicine"/ Springer (January 2021 – now)

o   My review license is here and here.(Peer-Review)

Leadership, Mentoring, and Advising

Team set-up for BigDataServe Co.

o   Receiving projects in fields of data mining, data science and data analytics
o   Stock prediction models, building robots for sell and buy in Forex and employment of various strategies to trade. (Prediction with time series models and portfolio optimization)

Teaching Experience

Teacher assistant at Illinois Institute of Technology

o   In "Data privacy and security" CS28 course, lecturer: Prof. Binghui Wang (Grading assignments and projects)

Teacher assistant at University of Tehran

o   In "Human factor engineering", lecturer: Dr. Seyed Mohammad Asadzadeh (Grading assignments)

Teacher assistant at Iran University of science and technology

o   In "Multiple Variables Statistical analysis" course, lecturer: Prof. Rassoul Noorossana (Teaching how to code)

Work Experience

Researcher, and product engineer at Tanzim-Yar (Reg-Tech) Startup Studio/ Tehran, Iran (April 2021 -December 2022)

o   Developed digital identification process as a third-party product (process engineering)

o   Built R&D teams for FinTech purposes, caused one successful startup exit

o   Successful to structure the startup studio for other companies by tech-based presentations and pitch decks.

AI engineer at Esfahan's Mobarakeh Steel Company/ Esfahan, Iran (November 2020 – November 2022)

o   Deep learning-based bearing fault detection

o   Production line optimization with material management via real time diagnosis system

CEO and Data scientist at Live Big Data Co./ Florida, USA (December 2019 -December 2020)

Web design and API/ Freelancer (April 2019 -April 2020)

o   Freelancer work in WordPress and HTML for websites design, Working through Upwork and Fiver

Financial data analyst at Learn4x/ Florida, USA (Remote) (November 2019-March 2020)

o   Visualizing data with Tableau and PowerBI by python scripts and analyzing graphs for forex.

Teacher and consultant at Jahad-Daneshgahi/ Tehran, Iran (November 2018 -November 2019)

o   Data science course (200 hours): Python, R, Machine Learning, and Data mining.

Technologies and software

Master at

Python (NumPy, Pandas, Matplotlib, Seaborn, SciPy, TensorFlow, Keras, io, sys, sklearn, random, re, nltk, and others.), R programming language, SQL management server, Tableau, Power BI, and Minitab

Experienced with

MATLAB, RapidMiner, Java, HTML & CSS, GAMS, Visual Paradigm, and Assembly language and VBA.

Projects

My research in financial analytics

My research in banking (data analytics)   My research in Forex

My research in Stock-Prediction-Models   My research in Time series