

NEMAT GHOLINEZHAD

Data Science Research Group
Department of Computer Engineering
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Education

M.Sc. in Computer Software Engineering

Nov 2021 – Jul 2024

Amirkabir University of Technology (Tehran Polytechnic)

- Thesis: Developing a graph learning based multi-stakeholder recommender method
- Supervisor: Dr. Mostafa Haghir Chehreghani
- Overall GPA: **17.31**/20
- Related courses:
Complex Networks Analysis, Big Data Analytics, Information Retrieval and Web Search, Natural Language Processing, Machine Learning

B.Sc. in Computer Engineering

Sep 2016 – Sep 2021

University of Zanjan

- Thesis: Stock market prediction based on Persian text and trends with a deep learning approach
- Supervisor: Dr. Mohsen Afsharchi
- Related courses:
Artificial Intelligence, Deep Learning, Speech and Language Processing, Basic Information Retrieval

Publications

- Nemat Gholinejad and Mostafa Haghir Chehreghani. Heterophily-Aware Fair Recommendation using Graph Convolutional Networks. (*under review*) arXiv preprint arXiv:2402.03365, 2024. ([link](#))

Awards and Honors

- The best application based proposal of the Faculty of Computer Engineering, **2022**

Teaching Experience

Information Retrieval and Web Search

Fall 2023

Amirkabir University of Technology

- postgraduate course
- Dr. Saeedeh Momtazi

Complex Network Analysis

Fall 2023

Amirkabir University of Technology

- postgraduate course
- Prof: Dr. Mostafa Haghir Chehreghani

Big Data Analytics

Winter 2023

Amirkabir University of Technology

- postgraduate course
- Prof: Dr. Mostafa Haghir Chehreghani

Artificial Intelligence

Winter 2020

University of Zanjan

- undergraduate course
- Prof: Dr. Mohsen Afsharchi

Research Experience

Research Assistant

Nov 2021 – Jul 2024

Amirkabir University of Technology (Tehran Polytechnic)

- Research on **Fairness in Graph Neural Network Based Recommendation Systems**
- Supervisor: Dr. Mostafa Haghiri Chehreghani

Research Interests

- Recommender Systems
- Fairness and Bias
- Graph Neural Network
- Information Retrieval
- Large Language Models
- Responsible AI

Work Experience

Data Engineer

Aug 2021 – Nov 2021

AviHang (Contractor of Iran Health Insurance Organization)

- Skills: Big and Sensitive Data Management, Proficiency in Team Communication
- Tools: Python, Spark, Cassandra, MySQL

Professional service

Journal Reviewer:

- Social Network Analysis and Mining
- Applied Intelligence

Undergraduate Student Mentorship:

- Provide guidance and support in the selection of research topics and projects
- Assist in the development of research proposals and project plans
- Offer insights into relevant literature and research methodologies
- Collaborate on designing experiments, coding, and implementing software solutions

Skills

- **Programming:**
 - Python
 - Pytorch
 - Pytorch Geometric
 - Tensorflow
 - Spark
 - SQL
 - Java
 - Git
- **Databases:**
 - MySQL
 - PostgreSQL
 - Cassandra
- **Language:**
 - Turkish
 - Persian
 - English

References

Upon request.