Nemat Gholinezhad

Data Science Research Group
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Education

M.Sc. in Computer Software Engineering   **Nov 2021 – Present**
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

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 – Present**

Amirkabir University of Technology (Tehran Polytechnic)

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

Research Interests

- Recommender Systems
- Fairness and Bias
- Graph Neural Network
- Large Language Models
- Information Retrieval
- Natural Language Processing

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 Journal
- Applied Intelligence Journal

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.