

Zahra Dehghani M.

Curriculum Vitae

Tehran, Iran
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Educations

- 2020–2022 **M.Sc. in Software Engineering**,
Iran University of Science and Technology, Tehran, Iran.
GPA: 17.02/20
- 2014–2018 **B.Sc. in Statistics**,
Alzahra University, Tehran, Iran.

Research Interests

- Natural Language Processing
- Data Science
- Machine Learning

Internships

- 2021–2022 **Statistical methodology for compairing encodings in SAT solvers.**
Under supervision of Dr. Abdallah Saffidine in University of New South Wales

Skills

- **Programming Languages**
Python, R
- **Data Science Libraries and Frameworks**
Numpy, Pandas, Matplotlib, Sklearn, Tensorflow, Keras, Pytorch
- **Web Frameworks**
Django
- **Version Controllers**
Git
- **Statistical Softwares**
SPSS, Minitab
- **Typesetting**
LaTeX, R markdown

Course Projects

- **Natural Language Processing**
Web Scraping: Developing a text style transfer system by scraping data from three websites

- **Deep Learning**

Text Classification with Graph Convolution Networks: Using graph convolutional networks and node2vec algorithm for text classification.

- **Search Engine and Web Mining**

Event Detection: Coronavirus event detection on Twitter.

- **Database Design**

Database for Online Taxis : Design and implement a database for online taxis with an SQL server.

- **Data Mining**

Feature Selection in Phishing dataset: Using wrapper methods for feature selection by machine learning algorithms.

Teaching Experiences

Fall 2021 **Advance programming**, *Teaching assistant*.

Under supervision of Dr. Tayebe Rafiei in Iran University of Science and Technology

Publications

- Hamed Aliyari and ... and Zahra Dehghani mohammadabadi, “The beneficial or harmful effects of computer game stress on cognitive functions of players” in *Basic and clinical neuroscience*, vol. 9, no. 3, pp. 177, 2018.
- Arash Negahdari Kia and Finbar Murphy and Zahra Dehghani Mohammadabadi and Parisa Shamsi, “Using network structure and community detection to discover important website features when distinguishing between phishing and legitimate ones” (in progress).

Research Experiences

2017–2018 **Data Analysis**, Baghyatollah Medical Sciences University, NeuroGame.

Under supervision of Dr. Masoomeh Kazemi

Related Courses

- Complex network: 4/4
- Data mining: 4/4
- Search engines and web mining: 4/4
- Deep learning: 3/4

Working Experiences

Summer **Internship**, *Data analysis with R*, Hesaba Company.

2020

Languages

- **Persian:** Native proficiency
- **English:** Intermediate