

Zahra Dehghani M.

Curriculum Vitae

Tehran, Iran

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Educations

- 2020–2023 **M.Sc. in Software Engineering**,
Iran University of Science and Technology, Tehran, Iran.
Thesis: A Method for defense against adversarial examples based on increasing the transferability
- 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 comparing encodings in SAT solvers.**
Under supervision of Dr. Abdallah Saffidine in University of New South Wales

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).

Skills

- **Programming Languages**
Python, R
- **Data Science Libraries and Frameworks**
Numpy, Pandas, Matplotlib, Sklearn, Tensorflow, Keras, Pytorch
- **Web Frameworks**
Django
- **Version Controllers**
Git

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.

- **Data Mining**

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

Teaching Experiences

Spring 2022 **Machine Learning**, *Teaching assistant.*

Under supervision of Dr. Arash Abdi in Iran University of Science and Technology

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

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

Research Experiences

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

Under supervision of Dr. Masoomeh Kazemi

Related Courses

- Big data
- Complex network
- Data mining
- Deep learning
- Search engines and web mining

Working Experiences

2022-Present **Data scientist**, *Jarfa Company.*

Summer 2020 **Internship**, *Data analysis with R*, Hesaba Company.

Languages

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