Zahra Dehghani Mohammadabadi

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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 **Statisticl methodology for compairing encodings in SAT solvers**.
Under supervision of Dr. Abdallah Saffidine in University of New South Wales

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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 *arXiv preprint* arXiv:2205.02889 (2022).

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

2022-2023 **Data scientist**, *Jarfa Company.*

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

Languages

- **Persian:** Native proficiency
- **English:** Intermidiate