

# Majid Zarharan

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## Education

Nov 2021 Sep 2018	<b>Iran University of Science and Technology (IUST)</b> • Ranked 4th among all Iranian Universities (Based on the <a href="#">QS World University Rankings 2022</a> ) • Master's degree in Artificial Intelligence • Supervisor: Dr. Sauleh Eetemadi and Dr. Mohammad Taher Pilehvar • GPA: 3.65 (Ranked 6th among 28 students)	Tehran, Iran
2011 2009	<b>Raja University</b> • BSc. Computer Engineering • GPA: 3.84 • Supervisor: Dr. Hooshang Azizi	Qazvin, Iran
2009 2007	<b>Vocational Technical University</b> • It is called Professor Hessabi • Associate of Computer Software • GPA: 3.82	Shirvan, North Khorasan, Iran

## Honors and Awards

- **Ranked 150th** in the National Universities Entrance Exam in M.Sc Degree, in Artificial intelligence discipline **among near 30,000 Participants**.
- **Member of [Iran's National Elites Foundation](#)** since 2019.
- **Ranked 6th among 28 graduate** students of AI in the Department of Computer Engineering **with a 3.65 GPA**.
- **Ranked 3rd among 120 undergraduate** students in the Department of Computer Engineering **with a 3.84 GPA**.
- **Ranked 1st among 30 students** in the Vocational Technical University **with a 3.82 GPA**.

## Research Interests

- Natural Language Processing
- Deep Learning
- Machine Learning (Lifelong learning, Few-shot learning, ...)
- Transfer Learning
- Multimodal AI
- Explainable AI
- Neural Net Interpretability
- Fake News Detection and Fact-checking
- Question Answering and Open Domain Chat bot
- Computer Vision

## Publications

Persian Stance Classification Data Set. [\[pdf\]](#) (TTO 2019)

M. Zarharan, S. Ahangar, F. Rezvaninejad, M. Lotfi Bidhendi, Sh. Jalali, M. Pilevar, B. Minaei and S. Eetemadi

ParsFEVER: a Dataset for Farsi Fact Extraction and Verification. [\[link\]](#) (\*SEM 2021)

M. Zarharan, M. Ghaderan, A. Pourdabiri, Z. Sayedi, B. Minaei-Bidgoli, S. Eetemadi and M. Pilehvar.

Persian Fake News Detection Using Stance Classification. (In Prep)

Claim Extraction and Explainable Fact-checking. (In Prep)

Automatic Construction of a Large-scale Dialogue Dataset Based On Movie Subtitles. (In Prep)

Developing an Open-Domain Dialogue System, Considering Text and Voice of Movie Dialogues. (In Prep)

## Academic Projects

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### Persian Fake News Detection

*In this project, I use Persian stance detection in order to detect fake news. In addition, this is my Master's dissertation.*

Oct 2020 – Nov 2022

### Persian Stance Detection [\[get data\]](#)

*The final project of the deep learning and natural language processing courses. My "Persian stance classification data set" paper is the result of this project.*

Aug 2019 – Jun 2020

### Educational Data Mining [\[get data\]](#)

*The final project of the data mining course. In this project, I examined students' information and obtaining reasons for academic growth, academic failure, and dropout.*

Jan 2020 – Jun 2020

### Movie Sentiment Analysis

*The final project of the machine learning course.*

Jan 2020 – Jun 2020

### Improving the Prediction of the Minority Class

*One of the pattern recognition course projects. Performing different methods of classifying imbalanced data in order to have realistic accuracy.*

Jul 2019 – Sep 2019

### Online Education Website

*The final project of the Bachelor's degree.*

2011

## Research Experience

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### Pioneered The First Persian Fake News Detection by Using Stance. Devised Robot User Detection Systems

- NLP and ML Engineer and Researcher at [Dadmotech company](#) (Jun 2021 – Present)
- Tech stack: Python | Tensorflow (Keras) | Pytorch | Django | MySQL | Gunicorn | Nginx | Scikit-Learn | Matplotlib | Pandas | Numpy | Seaborn | NLTK | FastText | Transformers | Docker | FastAPI | Hugging Face

### Established The First Persian Chit-Chat Dialogue System

- NLP and ML Engineer and Researcher at [Dadmotech company](#) (Jul 2020 – Jun 2021)
- Tech stack: Python | Tensorflow (Keras) | Pytorch | Django | MySQL | Gunicorn | Nginx | Scikit-Learn | Matplotlib | Pandas | Numpy | Seaborn | NLTK | FastText | Transformers | Docker | FastAPI | Hugging Face

### Engineered The First Persian Fact-checking System

- NLP and ML Engineer and Researcher at [Iran's National Elites Foundation](#) (Nov 2019 – Sep 2020)
- Tech stack: Python | Tensorflow (Keras) | Transformers | Django | MySQL | Scikit-Learn | Matplotlib | Pandas | Numpy | NLTK | Gensim | Word2vec | FastText | BERT | ParsBERT | Pytest | Hugging Face

## Industry Experience

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### AI Engineer and Senior .Net Developer at [Pajouhesh Co](#) (Oct 2017 – Jul 2020)

- Discovered educational data mining by using machine learning methods and employing Scikit-Learn
- Produced the first Persian educational data mining on the information of whole Iranian students by ML
- Forecasted the critical levels of dropping out of school, being expelled from school, and GPA
- Boosted the HR office automation system features by 15 and cut down paperwork by 40%
- Tech stack: Python | Scikit-Learn | Matplotlib | Pandas | Numpy | Seaborn | C# | SQL Server | Asp.net MVC | Entity Framework | RabbitMQ | Jquery | Angularjs | Bootstrap | Git | CSS | Html

## Industry Experience

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### Full Stack .Net Developer at Ican Engineering Group (Feb 2016 – Oct 2017)

- Added features and applications to an online HR office automation system which is called Farzin with ASP.Net and SQL Server
- Tech stack: Ado.net | C# | SQL | Asp.net | JQuery | Javascript | Bootstrap | jQuery UI | SignalR | TFS | Css | Html

### Full Stack .Net Developer at Mahan Anbough Payam (Jan 2013 – Feb 2016)

- Undertook web and windows applications development using C#, C#.Net, and SQL
- Tech stack: Ado.net | C# | SQL Server | Asp.net | MVC | Windows Application | JQuery | Javascript | Entity Framework | Bootstrap | Umbraco (asp.net cms) | FastReport | jQuery UI | My SQL | Facebook API | Google API | Unit test | Integration test | Design Patterns | MVP | Jira | Scrum | CSS | Html

### Full Stack .Net Developer (Freelancer) (Jan 2012 – Jan 2013)

- During this period, I deployed different websites for the private sector.
- Tech stack: Ado.net | C# | SQL Server | Asp.net | JQuery | Javascript | CSS | Html

## Teaching Experience

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### Natural Language Processing, Computer Engineering Department of Iran University of Science and Technology, Tehran, Iran (Feb 2021 – Aug 2021)

- Working as a teacher assistant.

### Data Mining, Computer Engineering Department of Iran University of Science and Technology, Tehran, Iran (Feb 2021 – Aug 2021)

- Working as a teacher assistant.

### Fundamentals of Computer Programming, Computer Engineering Department of Iran University of Science and Technology, Tehran, Iran (Sep 2019 – Feb 2020)

- Working as a teacher assistant.

## Computer Skills

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### Programming

- Python, TensorFlow (Keras), Pytorch, (MS/My) SQL, MongoDB, CNN, Transformers, Pandas, Scikit-Learn, Numpy, Pytest, Gensim, Jupyter, REST APIs, FastAPI, Django, Docker, Git, Windows, Linux, and familiar with R, RStudio, and Clouds

### Application

- PyCharm, Visual Studio, MS SQL Server, Microsoft Office

### Platforms

- Windows, Linux

## Certificates

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The Data Scientist's Toolbox [\[link\]](#) (2022) From coursera.org

Neural Networks and Deep Learning [\[link\]](#) (2020) From coursera.org

Deep Learning in Machine Vision and Image Processing Course [\[link\]](#) (2020)  
From Iranian Machine Vision and Image Processing Association.

## Languages

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Persian (Native Language)

English (Overall 6.5. speaking:7, reading: 6.5, listening and writing: 6)

- I faced a problem during the Written exam. I could get a higher score if necessary.

## Other Interests

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Almost all team sports (like Soccer and Volleyball), Ping Pong, Badminton, Bodybuilding and Camping

## Reference Professors

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- Behrouz Minaei Bidgoli, Associate Professor, Department of Computer Engineering, Iran University of Science and Technology, Tehran, Iran; [b\\_minaei@iust.ac.ir](mailto:b_minaei@iust.ac.ir)
- Mohammad Taher Pilehvar, Assistant Professor, Department of Computer Engineering, Iran University of Science and Technology, Tehran, Iran; [mp792@cam.ac.uk](mailto:mp792@cam.ac.uk)
- Sauleh Eetemadi, Assistant Professor, Department of Computer Engineering, Iran University of Science and Technology, Tehran, Iran; [sauleh@gmail.com](mailto:sauleh@gmail.com)