



Amin Fathi

M. Sc. in Artificial Intelligence,
Iran University of Science and Technology

Contact

Gmail Google Scholar LinkedIn Website Skype GitHub

Research Interests

- Machine Learning
- Data Analysis
- Natural Language Processing
- Computational Social Science
- AI policy
- Econometric

Education

IUST · Iran University of Science and Technology

Tehran, Iran : 2021 - 2024

M.Sc. in Computer Engineering, Major: Artificial Intelligence

GPA: 17.7 / 20 , 3.88 / 4

- Supervised by [Dr. Nasser Mozayani](#)
- Thesis: Automated search for neural networks in the domain of natural language processing

Selected Courses:

(All scores are in 4scale)

- Pattern Recognition (score: 4)
- Digital Image Processing (score: 4)
- Deep Learning (score: 4)
- Machine Learning (score: 4)
- Natural Language Processing (score: 4)
- Artificial Neural Networks (score: 4)

SBU · Shahid Beheshti University

Tehran, Iran : 2016 - 2021

B. Sc. in Electrical Engineering, Major: Power-Control Engineering

Selected Courses:

- Linear Algebra (score: 4)
- Communication circuits (score: 4)
- Communication Systems Engineering (score: 4)
- Modern Control Engineering (score: 4)

Publications

A longitudinal study about gradual changes in the Iranian Online Public Sphere pre and post of 'Mahsa Moment': Focusing on Twitter; Sadegh Jafari, Amin Fathi, Abolfazl Hajizadegan, AMIRMOHAMMAD KAZEMEINI, Sauleh Eetemadi (Lcahng 2023, EMNLP)

Bee-NAS: Neural Architecture Search for NLP Tasks [my master thesis]; Amin Fathi, Nasser Mozayani (In Progress)

Neural Architecture Search for Generating Effective Prompts ; Amin Fathi- Sahar Sarkar (In Progress)

Judicial LLMs and the Attack and Defence Bias; Amin Fathi - Ali Haghghatjavan - Sahar Sarkar (In Progress)

Honors

- Top 1%, Iranian university entrance exam for master's degree in Computer Engineering, September 2021
- Top 1%, Iranian university entrance exam for bachelor's degree, September 2016
- High School Diploma in Mathematics at National Organization for Development of Exceptional Talents (Sampad)
- Qualified for the Iran national team selection event for International Physics Olympiad (IPHO 2015)

Languages

- Azeri: Native Language**
- Persian: National Language**
- English: Proficient (IELTS score: 7.5)**
- Turkish: Proficient**
- French: Limited working proficiency**
- Arabic: Limited working proficiency**

Teaching Experience

Head Teaching Assistant:

- Computational Intelligence course (Instructor: [Dr.Mozayani](#)) **IUST** September 2022 - January 2023
- Artificial Neural Network course (Instructor: [Dr.Mozayani](#)) **IUST** September 2022 - January 2023
- Multi-agent Systems course (Instructor: [Dr.Mozayani](#)) **IUST** February 2023 - July 2023

Graduate Teaching Assistant :

- Advanced Data Mining course, (Instructor: [Prof.Minaei](#)) **IUST** February 2023 - July 2023
- Machine Learning course (Instructor: [Dr.Mohammadi](#)) **IUST** February 2023 - July 2023

- Deep Learning course (Instructor: [Dr.Davoodabadi](#))
- Pattern Recognition course (Instructor: [Dr.Analoui](#))
- Digital Image Processing course (Instructor: [Dr.Mohammadi](#))

IUST September 2022 - January 2023
 IUST September 2022 - January 2023
 IUST September 2022 - January 2023

Research and Work Experience

LLM Team Head December 2024 – Present | (Remote) Qom, Iran
 Hamtaa Co (Artificial Intelligence and Islamic Culture Institute)

Head of NLP Consulting Team July 2024 – December 2024 | Tehran, Iran
 Darya Fan Qeshm Industries Company - SADAF Co

Research Assistant Sep. 2021 – July 2024 | Tehran, Iran
 Soft Computing and Multi-agent Systems Lab (SCMS), Iran University of Science and Technology (IUST)
 Supervisor: Dr. Nasser Mozayani

React Native Developer April. 2017 – June 2019 | Tehran, Iran
 ICT Innovation Center (AICTC), Sharif University of Technology

Skills

Concepts:

- Large Language Models, Natural language processing
- Machine Learning, Deep Learning, Data Analysis, Feature Selection

Coding and frameworks:

- Python, MATLAB, Java, Javascript, React Native, LaTeX, C, Git, GitHub, C++, Stata, R
- Tensorflow, Keras, Scikit-learn, PyTorch, Numpy, matplotlib, Pandas, ggplot2, etc.

Selected Projects

First Persian AI Assistant for Judicial Arbitration

- Preparing legal datasets for training the first legal-focused LLM in Iran in collaboration with a team of lawyers.
- Developing a technical roadmap and project plan for implementing the first AI-powered legal assistant in Iran.
- Fine-tuning LLM on Iranian laws.
- Implementing advanced Retrieval-Augmented Generation (RAG) systems for legal document analysis.
- Designing a sample chatbot for judges to assist in legal decision-making

Analyzing Iranian Twitter after Mahsa Amini's death

- Crawl English and Persian dataset from twitter.
- Apply Sentiment Analysis and topic modeling methods on a sample set of data.
- Devise and apply brand-new method for tracking changes in the meaning of words.
- Passing the quantitative results to the social science expert on the team for a more in-depth analysis of Iranian Cyber society.

Certificates

- The Sustainable Development Goals – A global, transdisciplinary vision for the future (University of Copenhagen - Coursera)
- Sustainable Development in the 21st Century with Ban Ki-moon (Yonsei University - Coursera)
- International Organizations Management (University of Geneva - Coursera)
- AI & Law (Lund University - Coursera)
- Project Execution: Running the Project (Google - Coursera)
- Foundations of Project Management (Google - Coursera)
- Agile Project Management (Google - Coursera)
- Project Initiation: Starting a Successful Project (Google - Coursera)
- Project Planning: Putting It All Together (Google - Coursera)

(all certificates are available on my LinkedIn)

Volunteer Experience

Shahid Beheshti University:

- Member of the Central Committee of Students Association December 2017 - December 2021
- Chief editor of Political & Social magazines of Students Association December 2018 - December 2021
- Secretary of Sustainable Development Committee of Students Association December 2017 - December 2019
- Deputy Secretary of Students Association December 2020 - December 2021

Iran University of Science and Technology:

- Member of the Central Committee & Deputy Secretary of Students Association December 2021 - December 2022