

Mohammad Mahdi Samiei

Curriculum Vitae

Contact Info

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Research Interests

- Deep Learning
- Machine Learning
- Natural Language Processing
- Data Mining

Education

- 2018–2020 Master Science of Artificial Intelligence, Sharif University of Technology, Tehran, Iran.
○ Current GPA 17.17 / 20 (9 / 29 credits)
- 2014–2018 Bachelor Science of Computer Software Engineering, Amirkabir University of Technology, Tehran, Iran.
○ GPA 18.11 / 20
- 2010–2014 Diploma of mathematics and physics, Allame heli 4 high school (SAMPAD), Tehran, Iran.
○ GPA 19.29 / 20

BS Project

title Design and implementation a system for searching relevant question using crawling on Persian community question answering websites

supervisor Dr. Seyed Rasoul Mousavi

key Points

- Design and implementation crawlers to crawl periodically without visiting repetitive links
- Implementation crawlers to crawl dynamic web pages (pages that use JS to show their contents and can't be crawled by common scraping tools)
- Implementation Okapi BM25 ranking function to find similar questions and sort them in order of their proximity to a given question
- Implementation an inverted index to increase speed of system and decrease its response time

Honors

- 2014 Ranked top 0.3% in the country-wide university entrance exam, in more than 220'000 participants
- 2017 Selected as a member of national scientific olympiad in Computer Engineering team of amirKabir university of technology as a result of outstanding performance, Tehran, Iran, 2017.
- 2018 Ranked 18th in national master of artificial intelligence university entrance exam

Work experience

- Summer Internship at Adanic company, Tehran, Iran; data scientist, working on personal
- 2017 finance management (PFM) of Ayandeh Bank data

Projects - Mostly Available on github.com/mmsamiei

- 2014 Implementation English and Persian editor for DOS systems C → [link](#)
- 2015 Implementation of a simple guessing game, this was also executed on AlteraDE2 borad - Verilog HDL → [link](#)
- 2016 Implementation of a compiler lex, yacc, C → [link](#)
- 2017 Implementation of an agent for Pacman Capture Flag contest of university of berkeley Python → [link](#)
- 2017 Implementation of a proxy server with FTP connection Python → [link](#)
- 2018 Implementation frontend and backend of a movie database website for Internet Engineering course final project → [link](#)
- 2018 Implementation of a novel approach in link prediction in bi partite graphs → [link](#)
- 2018 Design and implementation a system for searching relevant question using crawling on Persian community question answering websites (BS-Project) → [link](#)
- 2019 Design and implementation a neural model for converting Image-to-Markup (Deep learning course final project) → [link](#)

Skills and Expertise

- General Software Programming.
C, Java, Python
- General Web Programming.
HTML, JS, CSS, PHP
- Web App Development Frameworks.
Vue, Laravel
- Others.
Git, L^AT_EX
- DBMS.
MySQL, SQLite, SQL Server, MongoDB
- Operating Systems.
Microsoft Windows, Linux (Ubuntu)
- Data Mining and Machine Learning Tools.
Weka, Scikit-Learn, Tensorflow, Pytorch

Important courses

- Data structures and algorithms, 20.
- Algorithm Design, 20.
- Artificial Intelligence, 19.25.
- Internet Engineering, 18.75.
- Algorithms for Complex Networks, 17.1.
- Natural Language Processing, 17.8.
- Machine Learning, 18.1.
- Deep Learning, Current term.
- Advanced Programming with Java, 18.
- Engineering Statistics, 20.
- Principles of database design, 19.96.
- System Analysis & Desig, 18.
- Foundations of Data Mining, 18.3.
- Software Eng, 18.
- Algorithmic Game Theory, Current term.

Teaching Experience

- Teaching Assistant in Artificial Intelligence, Spring 2019.
- Teaching Assistant in Machine Learning for Bioinformatic, Spring 2019.

Languages

- Persian (Native Proficiency)
- English (Limited working proficiency)

References

References available upon request