

# Mohammad Mahdi Samiei Paqaleh

## Curriculum Vitae



### Contact Info

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### Research Interests

- Machine Learning
- Natural Language Processing
- Information Retrieval
- Information Extraction

### Education

- 2018–2020 **Master Science of Artificial Intelligence**, *Sharif University of Technology*, Tehran, Iran.  
(Expected)
- 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 helli 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 repetitious 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](https://github.com/mmsamiei)

- 2014 Implementation English and Persian editor for DOS systems **C** → [link](#)
- 2015 Implementation of a 2d strategic game with multi-player support
- 2015 Implementation of a simple guessing game, this was also executed on AlteraDE2 borad - **Verilog HDL** → [link](#)
- 2016 Design and Implementation of a healthcare database system
- 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](#)

## Skills and Expertise

- **General Software Programming.**  
C, Java, Python

- **General Web Programming.**  
HTML, JS, CSS, PHP
- **Web App Development Frameworks.**  
Vue, Laravel, Flask
- **Hardware Design Languages.**  
Verilog, VHDL
- **Type Setting.**  
VIM, L<sup>A</sup>T<sub>E</sub>X, LibreOffice, Microsoft Word, Sublime Text, VS Code
- **Hardware Simulators.**  
ModelSim, Xilinx Vivado
- **DBMS.**  
MySQL, SQLite, SQL Server, MongoDB
- **Operating Systems.**  
Microsoft Windows, Linux (Ubuntu)
- **IDE.**  
Eclipse, Android Studio, Pycharm, Visual Studio
- **Data Mining and Machine Learning Tools.**  
Rapid Miner, Weka
- **Commandline tools.**

## Important courses

- **Introduction to Programming.**  
19 / 20
- **Advanced Programming with Java.**  
18 / 20
- **Data structures and algorithms.**  
20 / 20
- **Technical English.**  
18 / 20
- **Engineering Statistics.**  
20 / 20
- **Algorithm Design.**  
20 / 20
- **Principles of database design.**  
19.96 / 20
- **Theory of machines and languages.**  
19 / 20
- **Research & Technical Presentation.**  
17.4 / 20
- **Artificial Intelligence.**  
19.25 / 20

- **Principles of Compiler Design.**  
18.1 / 20
- **System Analysis & Desig.**  
18 / 20
- **Operating Sys. Design (I).**  
19.6 / 20
- **Computer Networks (I).**  
16.75 / 20
- **Foundations of Data Mining.**  
18.3 / 20
- **Internet Engineering.**  
18.75 / 20
- **Design of Programming Language.**  
18 / 20
- **Multimedia Systems.**  
19 / 20
- **Software Eng.**  
18 / 20
- **Theory of Computation.**  
20 / 20
- **Special Topics (Algorithms for Complex Networks).**  
17.1 / 20

## ■ Languages

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

## ■ References

References available upon request