Seyedeh Mina Mousavifar

Personal Data

Date of Birth:	23 May 1996
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Research Interests

Data Science, Recommendation Systems, Machine Learning

Natural Language Processing, Cognitive Science

Education

2014 - Present — B. Sc in Information Technology Engineering, **Sharif University of Technology**, Tehran, Iran
Cumulative Gpa: 17.78/20, Last Semester Two years GPA: 18.27/20

Relevant Coursework:
Artificial Intelligence (20/20), Data Analysis (19/20), Computer Simulation (20/20), Design of Algorithms(17.1/20)
Signals & Systems(18.3/20), Multimedia Systems (20/20)
IT Strategic Management (20/20), IT Project Management (19.2/20), Web Programming (18.5/20)

Current courses: Linear Algebra, Agile Development, Software Engineering

2010 - 2014 — Diploma in Physic and Mathematics Discipline, **Reyhane Al-Rasool High School**, Tehran, Iran
Gpa: 19.86/20

Research Projects

Spring 2018 - Present — **Music Recommender**, final thesis of Bachelor's degree under supervision of Prof. M.A. Fazli,
In this project, we aim to implement playlist generation method based on topic modeling and sentiment analysis of lyrics with bayesian hierarchical model discussed in this WSDM paper.

Summer 2018 - Present — **Sentiment Analysis of Digikala reviews** under supervision of Prof. H. Beigy,
Digikala is an online Persian market. In this project, we try to extract aspects and their sentiment from user ratings in Persian language using BLSTM with an additional attention layer. We use word embedding method to have a more accurate result.

Notable Course Projects

Spring 2018 | **Aviation Safety Data Analysis**, final joint project of "Data Analysis" course,
The project consists of a crawler written in python that fetches database from Aviation Safety website. Then data is analyzed to find crash causes by topic modeling on descriptions provided for each crash, prove some expressions using hypothesis tests and data visualization. Report is available on this page.

Fall 2017 | **News Recommendation System**, volunteer joint project of "Artificial Intelligence" course,
A Persian news recommendation system implemented in python. Extracting news topics with LDA models and filtering based on hybrid collaborative filtering and context base filtering.

Spring 2018 | **Simulation of Three Connected Queues and Servers in Discrete Time**, final joint project of "Computer Simulation" course,
A simulator of a system consists of two pre-processors on M/M/1 queue and different task picking strategies connected to final main processor.

Spring 2018 | **FIR filter**, final joint project of "Signals and Systems" course,
Implementing finite response filters, using different windowing techniques with Matlab.

Fall 2017 | **Childf Website**, final project of "System Analysis and Design" course,
A website for helping labour children implemented in Django.

Spring 2017 | **Customized Kernel**, final project of "Operating Systems" course,
A two phase project implemented in C++, in which in the first phase a system call was implemented for getting hardware info and in second phase a module was implemented in order to obtain process virtual memory data.

Spring 2017 | **Textbook**, project of "Web Programming" course,
A social media implemented in JavaScript and CSS with backend implemented in Django.

Fall 2016 | **Setting up a Data Center**, joint project of "IT Project Management" course,
Manage setting up a Data Center in Sharif IT Department project using MS Project.

Fall 2016 | **Median Filter on Noisy Image**, joint project of "Digital System Design" course,
A salt and pepper noise reduction synthesized circuit implemented in VeriLog.

Fall 2016 | **Micropogrammed CPU**, project of "Computer Architecture" course,
Implementing a CPU with microprogramming and state machine using Quartus

Fall 2015 | **Dota Game**, joint project of "Advanced Programming" course,
a real-time strategic tower defense game, that could be played with two players connected over a network implemented in Java.

Teaching Experience

Fall 2018	Teaching Assistant, "Artificial Intelligence" course. *M. H. Rohban, Sharif University of Technology*
Fall 2017	Head Teaching Assistant, "Information Technology Project Management" course. *S. E. Abtahi, Sharif University of Technology*
Fall 2017	Head Teaching Assistant, "Technical and Scientific Presentation" course. *S. E. Abtahi, Sharif University of Technology*
Fall 2016	Head Teaching Assistant, "Technical and Scientific Presentation" course. *S. E. Abtahi, Sharif University of Technology*

Honors

Fall 2018	Ranked **3rd** in Cumulative GPA among approximately 36 B.Sc. IT students of the department, 2014 beginners, Sharif University of Technology.
Summer 2014	**Top %0.1** in the Nationwide Universities Entrance Exam (Konkoor). Ranked 205^{th} in approximately 200,000 participants.

Computer Skills

Advanced Knowledge:	Python, Django, R, Java, Git, CSS, Matlab, Verilog, HTML, MacOS, MS Project, iWork
Intermediate Knowledge:	C, JavaScript, Linux, UML, Windows, Modelsim, Microsoft Office, Mind Mapper, WireShark
Basic Knowledge:	C++, mysql, X86 Assembly, LaTeX, AutoCad

Languages

Persian:	Mothertongue
English:	Fluent
German, Arabic:	Basic Knowledge

Volunteer Work

Dec. 2017	**Technical Staff**, of 19^{th} Asia Regional ACM-ICPC Contest Tehran, Iran.
Aug. 2017	**Technical Staff**, of 29^{th} National Olympiad in Informatics, Tehran, Iran, An annual international informatics competition for high school students from various invited countries, accompanied by social and cultural programmers. .
Mar. 2017, 2016	**Executive Staff**, of 2^{nd} & 1^{st} AI Challenge, Tehran, Iran. A nationwide AI programming contest held by computer engineering department of Sharif University.
Dec. 2016, 2015	**Executive Staff**, of 18^{th} & 17^{th} Asia Regional ACM-ICPC Contest Tehran, Iran.

Interests and Hobbies

Music, Daf instrument player(professional)

Documentary, Psychology, Workout, Traveling