

# Seyedeh Mina MOUSAVIFAR

## PERSONAL DATA

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DATE OF BIRTH: 23 May 1996  
ADDRESS: Department of Computer Engineering, Sharif University of Technology,  
Azadi Avenue, Tehran, Iran, 11155-11365  
PHONE: +98 912 5808400  
EMAIL: [mina.moosavi7@gmail.com](mailto:mina.moosavi7@gmail.com), [mmoosavi@ce.sharif.edu](mailto:mmoosavi@ce.sharif.edu)  
WEBSITE: <http://ce.sharif.edu/mmoosavi/>

## RESEARCH INTERESTS

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Data Science  
Recommendation Systems  
Machine Learning  
Cognitive Science

## EDUCATION

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2014 - PRESENT	<b>B. Sc in INFORMATION TECHNOLOGY ENGINEERING, Sharif University of Technology, Tehran, Iran</b> CUMULATIVE GPA: 17.74/20, LAST SEMESTER GPA: 19.49/20  RELEVANT COURSEWORK: <i>Artificial Intelligence (20/20), Data Science (grades not announced yet), Computer Simulation (20/20), Design of Algorithms(17.1/20)</i> <i>IT Strategic Management (20/20), IT Project Management (19.2/20), Web Programming (18.5/20), Multimedia Systems (20/20)</i> CURRENT COURSES: Linear Algebra, Agile Development, Software Engineering
2010 - 2014	<b>Diploma in PHYSIC AND MATHEMATICS DISCIPLINE, Reyhane Al-Rasool High School, Tehran, Iran</b> GPA: 19.86/20

## HONORS

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SUMMER 2014	<b>Top %0.1</b> in the Nationwide Universities Entrance Exam (Konkour). Ranked 123 <sup>rd</sup> in more than 300,000 participants.
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## RESEARCH PROJECTS

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SPRING 2018 - PRESENT	<b>Music Recommender</b> , final thesis of BACHELOR's degree under supervision of <a href="#">Prof. M.A. Fazli</a> , In this project, we aim to implement playlist generation method discussed in WSDM <a href="#">paper</a> and evaluate effects of using topic modeling and sentiment analysis of lyrics for playlist generation.
SUMMER 2018 - PRESENT	<b>Sentiment Analysis of Digikala reviews</b> under supervision of <a href="#">Prof. H. Beigy</a> , <a href="#">Digikala</a> is an online Persian market. In this project, first we try to analyze sentiment of user ratings in Persian language using neural network. After sentiment analysis of reviews we will rate products based on these sentiments.

## NOTABLE COURSE PROJECTS

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SPRING 2018	<b>Aviation Safety Data Analysis</b> , 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 <a href="#">this page</a> .
FALL 2017	<b>News Recommendation System</b> , 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	<b>Simulation of Three Connected Queues and Servers in Discrete Time</b> , 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	<b>FIR filter</b> , final joint project of “SIGNALS AND SYSTEMS” course, Implementing finite response filters, using different windowing techniques with Matlab.
FALL 2017	<b>Childf Website</b> , final project of “SYSTEM ANALYSIS AND DESIGN” course, A <a href="#">website</a> for helping labour children implemented in Django.
SPRING 2017	<b>Textbook</b> , project of “WEB PROGRAMMING” course, A <a href="#">social media</a> implemented in JavaScript and CSS with backend implemented in Django.
SPRING 2017	<b>Customized Kernel</b> , 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.
FALL 2016	<b>Setting up a Data Center</b> , joint project of “IT PROJECT MANAGEMENT” course, Manage setting up a Data Center in Sharif IT Department project using MS Project.
FALL 2016	<b>Median Filter on Noisy Image</b> , joint project of “DIGITAL SYSTEM DESIGN” course, A salt and pepper noise reduction synthesized circuit implemented in VeriLog.
FALL 2016	<b>Micropogrammed CPU</b> , project of “COMPUTER ARCHITECTURE” course, Implementing a CPU with microprogramming and state machine using Quartus.
FALL 2015	<b>Dota Game</b> , 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.
FALL 2014	<b>Flight Control Game</b> , joint project of “FUNDAMENTAL OF PROGRAMMING” course, an single-player arcade game for landing multiple airplanes in one runway without crashing implemented in C using GTK package.

## TEACHING EXPERIENCE

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FALL 2018	Teaching Assistant, "ARTIFICIAL INTELLIGENCE" course. <i>M. H. Rohban, Sharif University of Technology</i>
FALL 2017	Head Teaching Assistant, "INFORMATION TECHNOLOGY PROJECT MANAGEMENT" course. <i>S. E. Abtahi, Sharif University of Technology</i>
FALL 2017	Head Teaching Assistant, "TECHNICAL AND SCIENTIFIC PRESENTATION" course. <i>S. E. Abtahi, Sharif University of Technology</i>
FALL 2016	Head Teaching Assistant, "TECHNICAL AND SCIENTIFIC PRESENTATION" course. <i>S. E. Abtahi, Sharif University of Technology</i>

## COMPUTER SKILLS

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Advanced Knowledge:	Python, Django, R, Java, Git, CSS, Matlab, Verilog, HTML, MacOS, MS Project, iWork
Intermediate Knowledge:	C, JavaScript, LINUX, UML, Windows, Microsoft Office, WireShark
Basic Knowledge:	C++, mysql, X86 Assembly, Modelsim, Mind Mapper <del>TEX</del> , AutoCAD

## LANGUAGES

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PERSIAN:	Mothertongue
ENGLISH:	Fluent
GERMAN, ARABIC:	Basic Knowledge

## VOLUNTEER WORK

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DEC. 2017	<b>Technical Staff</b> , of 19 <sup>th</sup> Asia Regional ACM-ICPC Contest Tehran, Iran.
AUG. 2017	<b>Technical Staff</b> , of 29 <sup>th</sup> 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	<b>Executive Staff</b> , of 2 <sup>nd</sup> & 1 <sup>st</sup> AI Challenge, Tehran, Iran. A nationwide AI programming contest held by computer engineering department of Sharif University.
DEC. 2016, 2015	<b>Executive Staff</b> , of 18 <sup>th</sup> & 17 <sup>th</sup> Asia Regional ACM-ICPC Contest Tehran, Iran.

## INTERESTS AND HOBBIES

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Music, Daf instrument  
Cinema, Documentary, Theater, Puzzle  
Workout, Travelling