

Mina Tabatabaei

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Education

M.Sc. in Computer Engineering - Software

Tehran, Iran

IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Sep. 2019 - [Expected] Feb. 2022

- **GPA:** 18.96/20
- **Thesis Title:** Predicting novel drug combinations using a variety of data mining methods
- Under the supervision of [Dr. Hossein Rahmani](#)
- [Iran University of Science and Technology](#) is **ranked 4th** in Best Iran Universities.

B.Sc. in Computer Engineering - Software

Tehran, Iran

AMIRKABIR UNIVERSITY OF TECHNOLOGY

Sep. 2014 - Aug. 2019

- **GPA:** 17.83/20
- **Thesis Title:** Design and implementation of a news text classification system
- Under the supervision of [Dr. Saeede Momtazi](#)
- [Amirkabir University of Technology](#) is **ranked 2th** in Best Iran Universities.

Selected courses

- Computer Engineering Department at Iran University of Science and Technology
 - Data Mining (19.5/20)
 - Complex Dynamical Networks (19.5/20)
 - Large-Scale Data Systems (20/20)
- Social network analysis, Online course authorized by University of California, Davis and offered through Coursera. ([Certificate](#))
- Neural Networks and Deep Learning, Online course authorized by [deeplearning.ai](#) and offered through Coursera. ([Certificate](#))

Honors & Awards

- **Ranked 1st** based on **GPA** in class of 2019 Master's students of software computer engineering at Iran University of Science and Technology.
- Received **full scholarship** (tuition waiver) for Master of computer engineering at Iran University of Science and Technology.
- **Ranked 163** among approximately 14,000 participants in the National Entrance Examination for Iranian universities for **Master program**.
- Recognized as talented student from **Talented Student** Office of Amirkabir University of Technology.
- Received **full scholarship** (tuition waiver) for Bachelor of computer engineering at Amirkabir University of Technology.
- Among **Top 1%** in the National Entrance Examination for Iranian universities for **Bachelor program**.

Research Interests

- Machine learning
- Data analysis
- Complex networks
- Deep learning
- Text mining

Publications

- M. Tabatabaei, H. Rahmani, **Predicting novel drug combinations using a variety of data mining methods**, In preparation, 2021.
- M. Tabatabaei, S. Momtazi, **Classification of Persian news texts with active learning**, In the 11th International Conference on Information and Knowledge Technology (IKT), 2020.

Research Experience

- Implementing data mining methods for drugs combinations prediction, Iran University of Science and Technology, Under the supervision of [Dr. Hossein Rahmani](#), Sep. 2020- present.
- Data mining and graph analysis on [MIMIC-III dataset](#), Iran University of Science and Technology, Under the supervision of [Dr. Hossein Rahmani](#), Mar. 2021- May. 2021.
- Performing data quality engineering, data cleaning and data analysis on the Iranian welfare dataset, Iran University of Science and Technology, Under the supervision of [Dr. Hossein Rahmani](#), Apr. 2020- Apr. 2021.
- Implementing Machine learning and active learning methods for news text classification, Amirkabir University of Technology, Under supervision of [Dr. Saeede Momtazi](#), Feb. 2020- Feb. 2019.

Work Experience

Industrial

Teenat

Tehran,Iran

LABORATORY PROJECT

Apr 2020-Present

- Text mining analysis on legal documents

Bank intelligent transaction analysis (BITA)

Tehran,Iran

STARTUP PROJECT

Nov. 2020 - Mar. 2021

- AI-based financial fraud detection tool

Whitefox

Tehran,Iran

STARTUP PROJECT

Feb. 2019 - Feb. 2020

- Text mining based B2B recommendation system

Research based internship

Tehran,Iran

SABA SYSTEM SADRA

Summer 2016

- Introduced to security information and event management (SIEM) and related products

Internship in computer science

Tehran,Iran

ECONOMIC COOPERATION ORGANIZATION (ECO)

Jul. 2016 - Sep. 2016

- Involved in projects to automate the flow of information and knowledge management at the ECO secretariat

Teaching

Data Mining teaching assistant

Instructor: Dr. Hossein Rahmani

COMPUTER ENGINEERING DEPARTMENT AT IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Fall 2020 and Spring 2021

- Holding sessions to teach softwares related to course such as Cytoscape
- Designing exercises for students that could facilitate the transition.
- Grade homework, programming assignments, mini exams, and projects.

Principles of Database Design teaching assistant

Instructor: Dr. Hossein Rahmani

COMPUTER ENGINEERING DEPARTMENT AT IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Spring 2020

- Designing exercises for students that could facilitate the transition.
- Grade homework, programming assignments, mini exams, and projects.

Data Structures and Algorithms teaching assistant

Instructor: Dr. Hossein Rahmani

COMPUTER ENGINEERING DEPARTMENT AT IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

Fall 2020

- Grade homework, programming assignments, exams, and projects.

Selected Academic Projects

NoSQL database

Advanced Database Course

CASSANDRA

2020

Implementing a project similar to Twitter with Cassandra database

Data mining

Data Mining Course

PYTHON

2020

Analysing a real dataset about the welfare of 5% of Iranians using different preprocessing and data mining algorithms.

Alibaba

Software Architectures Course

MVC

2020

Design and implementing an online ticket buying system named Alibaba using MVC framework and SQLite as a database management system.

Big data project

Large-Scale Data Systems Course

SPARK

2020

Presentation about Spark and implementing example for SparkSQL, MLlib, GraphX and Spark Streaming libraries.

Twitter spam detection

Search Engines and Web Mining

Course

PYTHON

2019

Improve spam detection in Twitter using a methods based on machine learning and combining statistical features related to tweets and users with centrality features in users relations graph.

System design

System analysis and design Course

RATIONAL UNIFIED PROCESS (RUP)

2017

Design a system to automate the services provided by sports clubs.

Software design of an online gift Shop system

Skills

Programming Languages

Python, C/C++, JAVA, Matlab, VHDL

Data analysis Tools

Clementine, Weka, Rapid Miner, Cytoscape, Gephi

Web Development Tools

HTML5, CSS3, JavaScript

Databases

MySQL, Cassandra, Apache Hadoop, Microsoft SQL Server, SQLite

Other Tools

Git, LATEX, JetBrains IDEs, Visual Studio, Microsoft Office

Languages

Persian as a native language, Fluent in **English**, Familiar with **French**

References

Dr. Hossein Rahmani, Assistant professor at Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran.

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Dr. Saeede Momtazi, Assistant professor at Computer Engineering Department, Amirkabir University of Technology, Tehran, Iran.

(+98) 21-64542737 momtazi@aut.ac.ir

Hobbies

- Swimming, Ping Pong, Painting, Cooking, Reading