

Mina Tabatabaei

Apt.10, no.1, 12th sharghi Alley, Sabari St, Aghdasieh, Tehran, Iran

☎ (+98) 912-075-3719 | ✉ mina_tabatabaei@comp.iust.ac.ir | 🏠 minta76.github.io | 🌐 mina-tabatabaei

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 deep learning 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

LABORATORY PROJECT

- Text mining analysis on legal documents

Tehran, Iran

Apr 2020-Present

Bank intelligent transaction analysis (BITA)

STARTUP PROJECT

- AI-based financial fraud detection tool

Tehran, Iran

Nov. 2020 - Mar. 2021

Whitefox

STARTUP PROJECT

- Text mining based B2B recommendation system

Tehran, Iran

Nov. 2019 - Feb. 2020

Research based internship

SABA SYSTEM SADRA

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

Tehran, Iran

Summer 2017

Internship in computer science

ECONOMIC COOPERATION ORGANIZATION (ECO)

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

Tehran, Iran

Jul. 2016 - Sep. 2016

Teaching

Data Mining teaching assistant

COMPUTER ENGINEERING DEPARTMENT AT IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

- 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.

Instructor: Dr. Hossein Rahmani

Fall 2020 and Spring 2021

Principles of Database Design teaching assistant

COMPUTER ENGINEERING DEPARTMENT AT IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

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

Instructor: Dr. Hossein Rahmani

Spring 2020

Data Structures and Algorithms teaching assistant

COMPUTER ENGINEERING DEPARTMENT AT IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

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

Instructor: Dr. Hossein Rahmani

Fall 2019

Selected Academic Projects

Welfare Estimation

Data Mining Course

PYTHON

2020

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

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.

NoSQL database

Advanced Database Course

CASSANDRA

2020

Implementing a project similar to Twitter with Cassandra database.

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, MLib, GraphX and Spark Streaming libraries.

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 , RapidMiner,Cytoscape, Gephi
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.

(+98) 21-73225317 h_rahmani@iust.ac.ir

[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