

Atefeh Mohammadi

All underlined terms are clickable links.

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Education

Alzahra University

Tehran, Iran

B.SC. IN COMPUTER ENGINEERING

Fall 2016 - Summer 2021

- A government-funded University
- Selected courses:
 - Machine Learning : A+ (20/20)
 - Signals and Systems : A+ (20/20)
 - Data Structures : A+ (18/20)
 - Engineering Mathematics : A (17.1/20) (As an exchange student in [Shahid Behesti University](#))
 - Statistics and Probability : A (17/20)
 - Discrete Mathematics : A (17/20)
- Last two years' GPA : 17.79/20 (equal to 3.72/4.0)
- Overall GPA : 16.59/20 (equal to 3.38/4.0)

Research Interests

- Machine Learning
- Artificial Intelligence
- Algorithms Design & Data Structures
- Bioinformatics
- Natural Language Processing
- Data Mining

Research Experience

Usage of Data Mining in Diagnosing Breast Cancer

CONFERENCE PAPER

July 2022 - Present

- Used RapidMiner Studio to classify three public data sets on breast cancer. Under preparation paper; under the supervision of [Prof. MohammadReza Keyvanpour](#).

Languages

Persian Mother tongue

English • TOEFL iBT : 109 • GRE : To be taken soon • FCE (First Certificate in English): Grade B

French Beginner

Arabic Beginner

Skills

Data Science

EFFICIENT

Jan. 2019 - Present

- Comfortable with programming in **Python** and working with its useful libraries like : **Numpy**, **Pandas**, and **Scikit-learn**
- Efficient at using **data visualization** tools such as **matplotlib**, **seaborn**, **plotly** and **cufflinks**
- Efficient at working with **RapidMiner Studio**
- Familiar with implementing **neural networks** using **Keras**
- Familiar with programming in **MATLAB**

Relational Databases

INTERMEDIATE

Jan. 2019 - Present

- Efficient at relational algebra and working with **MS SQL server** and **SQLite**

Web & OS

FAMILIAR

Dec. 2016 - Present

- Familiar with VMWare workstation and Cisco Packet Tracer
- Beginner in **Linux** (Ubuntu and Mint)

Work Experience

Virtual Internship Program

UPKEY

Jul. 2021 - Aug. 2021

- Took part in Upkey's Virtual Internship Program for summer 2021 and learnt about entrepreneurship and start-ups, SEO, google analytics, leadership, finance, and marketing.

Data Scientist

Tehran, Iran

QUERA

Nov. 2020 - Jan. 2021

- A member of validation team for code cup and Mofid brokerage data science contests; Solved their problems and helped detecting errors

Data Scientist

Tehran, Iran

SENSO STARTUP

Oct. 2020 - Nov. 2020

- Programmed in **Python** to fetch, clean, visualize and analyze Iran's bourse market data on a daily basis from TSETMC website

Back-end Developer

Tehran, Iran

YARA INFORMATION TECHNOLOGY

Jul. 2020 - Sep. 2020

- Wrote a Python script for playing Rock-Paper-Scissors game with the computer
- Made a **web crawler** to fetch and save advertisements from bama.ir with Python using **Beautiful soup** module
- Experienced working with **Git** in a team

Selected Projects

Linear Regression and Classification

PYTHON

Dec. 2021

- Implemented **linear regression** from scratch and used **six classification models** (logistic regression, SVM, kNN, decision tree, random forest, and naive Bayesian) to analyze a data set. Full report and code are available at Github.

Classification on Lung Images

PYTHON

Jan. 2021

- Used **Keras** to build a neural network to **classify CT scan images** of lungs based on their disease. Code is available at Github.

NLP on DigiKala Comments

PYTHON

Nov. 2020

- Implemented **naive Bayesian** classifier from scratch to **classify Persian comments** on some products. Code is available at Github.

Crawling Twitter

PYTHON

Sep. 2020

- Used **tweepy** to send requests to Twitter and get user's information, their latest tweets, and search for a word or date in their tweets.

Teaching Experience

Formal Languages and Automata Theory Teachers Assistant

Tehran, Iran

ALZAHRA UNIVERSITY : DR. MASOUD SAGHARICHIAN

Sep. 2019 - Jan. 2020

- Held TA sessions during the semester and taught course materials based on P. Linz textbook (with extra content on **RegEx in Python**)
- Assigned and graded homework during the semester
- Helped in grading final and mid-term exams
- Taught installing and using JFLAP software

Advanced Programming Teachers Assistant

ALZAHRA UNIVERSITY : [DR. MEHRAN SHARGHI](#)

Tehran, Iran

Jan. 2018 - Jul. 2018

- Held TA sessions during the semester and taught object oriented programming in **Java** programming language
- Graded course projects

English Teacher

[THE ONE LANGUAGE ACADEMY](#)

Tehran, Iran

Jul. 2016 - Apr. 2017

- Taught English language at elementary level

Volunteer Work

Alzahra University : Computer Engineering Scientific Society

Tehran, Iran

PRESIDENT - HEAD OF RESEARCH COMMITTEE

Oct. 2017 - Nov. 2019

- Had two different roles in two consecutive academic years and was an executive staff in university events such as engineers day and weekly talks

Honors & Awards

2016 **Ranked among Top 1%,** The Iranian University Entrance Exam (among more than 180,000 contestants)

Tehran, Iran

2010 **Ranked 3rd,** The national students Mathematics Olympiad

Tehran, Iran

Courses & Workshops

Machine Learning

RAHNEMA COLLEGE

Nov. 2021

- Fully passed [Rahnema College online course](#) on fundamentals of machine learning. [View certificate](#)

Task-oriented course in fundamentals of Python programming and algorithmic thinking

QUERA COLLEGE

Aug. 2020

- Certified with Perfect score by Quera College. [View certificate](#)

Network+

Tehran, Iran

IEEE STUDENT BRANCH OF K.N. TOOSI UNIVERSITY OF TECHNOLOGY

Nov. 2017

- Attended a 24 hour workshop on network+

Windows Server

Tehran, Iran

IEEE STUDENT BRANCH OF K.N. TOOSI UNIVERSITY OF TECHNOLOGY

Apr. 2017

- Attended a 40 hour workshop on windows server

Referees

Dr. MohammadReza Keyvanpour (Professor)

ALZAHRA UNIVERSITY

- Email : keyvanpour@alzahra.ac.ir

Dr. Abolfazl Toroghi Haghighat (Visiting Professor)

ISLAMIC AZAD UNIVERSITY OF QAZVIN

- Email : at_haghighat@yahoo.com