

Atefeh Mohammadi

COMPUTER ENGINEER

All underlined terms are clickable links.

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Education

Alzahra University

Tehran, Iran

B.Sc. IN COMPUTER ENGINEERING

Fall 2016 - Summer 2021

- Selected courses:
 - Machine Learning (20/20)
 - Computer Networks (20/20)
 - Bachelor's Thesis Project (19.5/20)
 - Data Structures (18/20)
 - Engineering Mathematics (17.1/20)
 - Statistics and Probability (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)

Aboureihan school

Tehran, Iran

HIGH SCHOOL DIPLOMA, MATHEMATICS AND PHYSICS

Fall 2012 - Summer 2016

- Diploma GPA : 19.6/20

Research Interests

- Machine Learning in health-related issues
- Algorithms Design & Data Structures
- Deep Learning

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; with the supervision of [prof. MohammadReza Keyvanpour](#).

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

Tehran, Iran

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

Jan. 2018 - Jul. 2018

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

English Teacher

Tehran, Iran

[THE ONE LANGUAGE ACADEMY](#)

Jul. 2016 - Apr. 2017

- Taught English language at elementary level

Work Experience

VIP intern

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, and more.

Validator of Quera Contests

QUERA

Tehran, Iran
Nov. 2020 - Jan. 2021

- A member of validation team for [code cup](#) and [Mofid brokerage](#) data science contests

Data Scientist

SENSO STARTUP

Tehran, Iran
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 Development Intern

YARA INFORMATION TECHNOLOGY

Tehran, Iran
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

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 programming in **MATLAB**

Relational Databases

INTERMEDIATE

Jan. 2019 - Present

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

Network & Web & OS

FAMILIAR

Dec. 2016 - Present

- Attended a 24 hour workshop on **network+**
- Familiar with VMWare workstation and Cisco Packet Tracer
- Beginner in **Linux** (Ubuntu and Mint)

Languages

Persian Mother tongue

English • TOEFL iBT : 109 • GRE : To be taken soon • FCE : Grade B

French Beginner

Arabic Beginner

Selected Projects

Linear Regression and Classification

PYTHON

Dec. 2021

- Implemented **linear regression** from scratch and used it to analyze a data set and used six classification models to analyze another 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 Bayes** classifier from scratch to **classify Persian comments** on some products. Code is available at [Github](#).

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

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|------|---|--------------|
| 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](#)

IBM Community Day

ONLINE CONFERENCE

Oct. 2018

- Attended IBM's one day online conference on **artificial intelligence**