

Atefeh Mohammadi

All underlined terms are clickable links.

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Education

Alzahra University

Tehran, Iran

B.SC. IN COMPUTER ENGINEERING

Sep. 2016 - Sep. 2021

- Machine Learning (A+), Data Structures (A+), Statistics and Probability (A), Engineering Mathematics (A), Signals and Systems (A+), Discrete Mathematics (A), Bachelor's Thesis Project (A+)
- Last two years' GPA : 17.79/20 (3.72/4.0)**
- Overall GPA : 16.59/20 (3.38/4.0)

Research Interests

- Machine Learning
- Deep Learning
- Algorithms Design & Data Structures
- Bioinformatics
- Natural Language Processing
- Social Media Analysis

Research Experience

Mohammadi, A. and Keyvanpour, MR. **"Comparing Classification Algorithms in Diagnosing Breast Cancer"** (Under prep.)

- In this research, we implemented six classification models (including Decision Tree, Random Forest, Naive Bayesian, SVM, kNN, and Logistic Regression) using Python and RapidMiner Studio to compare their performance (including Accuracy, Precision, Recall, and F1 score) in predicting breast cancer in women based on several biological factors such as age, BMI, menopause, and blood components such as glucose, insulin, and leptin.

Skills

Data Science

EFFICIENT

- Experienced in programming with **Python** and **Java**
- Experienced in machine learning libraries such as **Numpy**, **Pandas**, **Scikit-Learn**, **Matplotlib**, **Seaborn**, and **Scipy**
- Advanced in SQL databases (**MS SQL server**, **SQLite**, and **MySQL**)
- Advanced at working with **RapidMiner Studio** and **MATLAB**
- Familiar with implementing **Neural Networks** using **Keras**
- Familiar with **Natural Language Processing** and **NLTK**
- Familiar with **Reinforcement Learning**

Miscellaneous

FAMILIAR

- Linux** (Ubuntu and Mint) and **Linux Server**
- Git**, Github, and Gitlab
- VMWare workstation**, **Cisco Packet Tracer**, **Modelsim**, and **Proteus**
- Django** framework

Languages

Persian (Farsi) Mother tongue

- TOEFL iBT : 109** (Reading : 27, Listening : 27, Speaking : 28, Writing : 27)

English • GRE General : To be taken on December 6, 2022

- FCE (First Certificate in English): Grade B

French Beginner

Arabic Beginner

Work Experience

Data Scientist

QUERA

Tehran, Iran

Nov. 2020 - Jan. 2021

- Question validator for data science contests

Data Scientist

SENSO

Tehran, Iran

Oct. 2020 - Nov. 2020

- Developed Python-based systems to crawl data from Iran's bourse market website

Back-end Developer

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

Selected Projects

Linear Regression and Classification

PYTHON

Dec. 2021

- Developed **Linear Regression** using pure **Python** and **Numpy**
- Used Scikit-Learn to implement classification models (**Logistic Regression**, **SVM**, **kNN**, **Decision Tree**, **Random Forest**, and **Naive Bayesian**). Full report and code are available at Github.

Lung Images Classification

PYTHON

Jan. 2021

- Used **Keras** to build Neural Networks 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 comments** on products. Code is available at Github.

Twitter Data Collection

PYTHON

Sep. 2020

- Used **Tweepy** and Twitter API to crawl user's information, latest tweets, and search content based on keywords.

Teaching Experience

Formal Languages and Automata Theory Teacher Assistant

ALZAHRA UNIVERSITY : DR. MASOUD SAGHARICHIAN

Tehran, Iran

Sep. 2019 - Jan. 2020

- Held teaching sessions during the semester and taught course materials (with extra content on **RegEx** in **Python**)
- Assigned and graded homework during the semester and Taught installing and using JFLAP software

Advanced Programming Teacher Assistant

ALZAHRA UNIVERSITY : DR. MEHRAN SHARGHI

Tehran, Iran

Jan. 2018 - Jul. 2018

- Held TA sessions and taught object oriented programming in **Java** programming language and 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

PRESIDENT - HEAD OF RESEARCH COMMITTEE

Tehran, Iran

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 | Won Tuition-Waiver Fund , Won the government tuition-waiver fund for studying bachelor's of science at Alzahra University | <i>Tehran, Iran</i> |
| 2016 | Ranked Among Top 1% , The Iranian University Entrance Exam (Konkour) among more than 180,000 contestants | <i>Tehran, Iran</i> |
| 2010 | Ranked 3rd , The national students Mathematics Olympiad | <i>Tehran, Iran</i> |

Courses & Workshops

Fundamentals of Machine Learning Course

RAHNEMA COLLEGE

Nov. 2021

- Learnt about **Maximum Likelihood Estimation, Gradient Descent, Supervised Algorithms, Unsupervised Algorithms, and Neural Networks**. [View certificate](#)

Task-Oriented course in Fundamentals of Python programming Course

QUERA COLLEGE

Aug. 2020

- Certified with Perfect score in Fundamentals of Python. [View certificate](#)

Network+ Workshop

Tehran, Iran

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

Nov. 2017

- Learnt the basics of Computer Networks.

Referees

Dr. MohammadReza Keyvanpour (Professor)

ALZAHRA UNIVERSITY

- Email : keyvanpour@alzahra.ac.ir
- Google Scholar : [link](#)

Dr. Abolfazl Toroghi Haghighat (Visiting Professor)

ISLAMIC AZAD UNIVERSITY OF QAZVIN

- Email : at_haghighat@yahoo.com
- Google Scholar : [link](#)