

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

- Selected courses: Machine Learning (20/20), Human-Computer Interaction (20/20), Data Structures (18/20), Statistics and Probability (17/20), Linear Algebra (17.1/20), Signals and Systems (20/20), Discrete Mathematics (17/20), Bachelor's Final Project (19.5/20)
- Last two years' GPA : 17.79/20 (3.72/4.0)**
- Overall GPA : 16.59/20 (3.38/4.0)

Research Interests

- Machine Learning
- Artificial Intelligence in Healthcare Systems
- Bioinformatics
- Social Media Analysis
- Algorithms Design & Data Structures
- Computer Vision

Research Experience

Mohammadi, A. and Keyvanpour, MR. "Comparing Classification Algorithms in Diagnosing Breast Cancer" (Ready to be submitted)

- 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) on 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

- Experienced in **Python** programming
- 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 in working with **RapidMiner Studio** and **MATLAB**
- Beginner in implementing **Neural Networks** using **Keras** and **PyTorch**
- Beginner in **Natural Language Processing** using **NLTK**
- Beginner in **Reinforcement Learning**

Network & OS

- Beginner in **Linux** (Ubuntu and Mint)
- Beginner in **Network+** and **Windows Server**

Others

- Familiar with **Java** programming
- Familiar with **Git**, Github, and Gitlab

Languages

Persian (Farsi)

Mother tongue

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

English

- GRE General : 306 (**Quantitative : 162**, Verbal : 144, **Analytical Writing : 4.0**)

- FCE (First Certificate in English): Grade B

French

Beginner

Arabic

Beginner

Work Experience

Machine Learning Engineer

Tehran, Iran

RAHNEMA COLLEGE

Jun. - Aug. 2023

- Did a project on demand prediction of an online ride-hailing application based on New York City data, including training different machine learning models and comparing the outcomes. [View Bootcamp certification](#)

Machine Learning Contest Validator

Tehran, Iran

QUERA

Nov. 2020 - Jan. 2021

- Validated programming questions for Quera's data science contests; including solving the problems and detecting errors

Data Scientist

Tehran, Iran

SENSO

Oct. - Nov. 2020

- Developed Python-based systems to fetch, clean, visualize, and analyze data from Iran's bourse market website

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

Tehran, Iran

ALZAHRA UNIVERSITY : DR. MASOUD SAGHARICHIAN

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

Tehran, Iran

ALZAHRA UNIVERSITY : DR. MEHRAN SHARGHI

Jan. - Jul. 2018

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

English Teacher

Tehran, Iran

THE ONE LANGUAGE ACADEMY

Jul. 2016 - Apr. 2017

- Taught English as a foreign language at the 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 **Won Tuition-Waiver Fund**, Won the government tuition waiver fund for studying Bachelor of Science at Alzahra University *Tehran, Iran*
- 2016 **Ranked Among Top 1%**, The Iranian University Entrance Exam (Konkour) among more than 180,000 contestants *Tehran, Iran*

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](#)

Python for Data Science and Machine Learning Bootcamp

UDEMY

Feb. 2021

- Fully passed this [Udemy online course](#)

Task-Oriented course in Fundamentals of Python programming Course

QUERA COLLEGE

Aug. 2020

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

Referees

Dr. MohammadReza Keyvanpour (Professor)

ALZAHRA UNIVERSITY

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

Dr. Abolfazl Toroghi Haghighat (Visiting Professor)

QAZVIN ISLAMIC AZAD UNIVERSITY

- Email : haghighat@qiau.ac.ir
- Google Scholar : [link](#)

Dr. Hadi Shakibian (Assistant Professor)

ALZAHRA UNIVERSITY

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