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 (20/20)
  - Signals and Systems (20/20)
  - Bachelor's Thesis Project (19.5/20)
  - Data Structures (18/20)
  - Operating Systems (17.5/20)
  - Engineering Mathematics (17.1/20) (As an exchange student in Shahid Behesti University)
  - Statistics and Probability (17/20)
  - Discrete Mathematics (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   • 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.

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)

Languages

Persian Mother tongue

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

French Beginner

Arabic Beginner

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, leadership, finance, and marketing.

Validator of Quera Contests
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 Development Intern
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.

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