

Seyed Mohammad Amin Taheri Ghahfarokhi (Amin Taheri)

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Education

B.Sc. in Computer (Software) Engineering

Tehran, Iran

Azad University, Central Tehran Branch (IAUCTB)🔗

2016 Sep - 2020 Sep

Thesis: Diabetes prediction web app with Deep Learning 🔗 under supervision of **Dr. Iman Attarzadeh**. ✉

Thesis Grade: (20/20 - 4/4)

- 148 credits program with GPA of **17.76/20 (3.68/4.00)**. GPA of the last two years is **(3.81/4.00)**
- **Selected courses:** Operating Systems (20/20) - Data Structures (20/20) - Databases Laboratory (20/20) - System Analysis and Design (19.5/20) - Computer Networks (18/20) - Internet Engineering (18/20)

Diploma of Mathematics and Physics

Tehran, Iran

National Organization for Development of Exceptional Talents (NODET), **GPA 18.34/20**

2012 Sep - 2016 Sep

Honors and Awards

Top student of graduating class

Tehran, Iran

Ranked within the **top 5%** among the graduating class

2020 Sep

Top student of 2016 graduation class of B.Sc program in Azad University, Central Tehran Branch

IEEE Xtreme Programming Competition 🔗

Tehran, Iran

Ranked within the **top 12%** of IEEE Xtreme 11.0 programming competition

2017 Oct

IEEE Xtreme 🔗 is a 24 hour programming competition. IEEE Xtreme 11.0 had 8,300 participants

National Entrance Exam

Tehran, Iran

Ranked within the **top 5%** of the Iranian University Entrance Exam for Bachelor degree (Konkur)

2016 Sep

I participated in Math and Physics exam

First place in Cognitive Science Competition

Tehran, Iran

1st place in Cognitive Neuroscience Competition for High School Students (CNCH)

2014

This competition was held by IPM 🔗 in partnership with the Allameh Helli Highschool

Research Interests

- Deep Learning
- Natural Language Processing
- Computer Vision
- AI in HealthCare
- Language Modelling
- Face Recognition

Selected Projects

Diabetes prediction with Machine Learning algorithms and Deep Learning 🔗

Under the supervision of **Dr. Iman Attarzadeh** ✉, I developed a **Diabetes prediction** and used Deep Neural Networks, Support Vector Machines, Logistic Regression, Naive Bayes models. I created a web application with StreamLit.io and Jupyter Notebook documentation for this project.

IMDB Sentiment Classification with GPT2 🔗

Fine-tuned **GPT2** with little data (around 500 sentences) and created a sentence embedding from averaging word sentences and performs better than a logistic regression base line.

Single Face Extractor [↗](#)

Under the co-supervision of **Alireza Akhavanpour** [✉](#) and Bahar Baradaran Eftekhari. This project extract video clips that contain only a single face from a video with **OpenCV, Python, and Retina Face**.

Named Entity Recognition for Persian Text [↗](#)

In this project, I built and trained a model to recognize **Named Entities** in a sentence. This model should give a tag to each word from a sentence. A classic application for Natural Language Processing (NLP).

Experience

Vocational.....

Computer Vision Intern

Tehran, Iran

Shenasa-ai Company [↗](#)

2019 Oct - 2019 Dec

Under supervision of **Alireza Akhavanpour** [✉](#), I developed a script for **Face Extraction in Video** with Retina Face and OpenCV. This script can run with 3x speed of the video and extract clips that contain a face in it. Also researched **Face Quality Assessment in Videos** and tried to re-implement a paper named 'Score based Face Quality Assessment' using LBP, HOG, and CNN feature extractor with an Auto Encoder. I also presented about TDD with python in my internship.

Natural Language Processing Engineer

Tehran, Iran

Rahhat.ir Startup

2018 Feb - 2019 Jun

As a startup member, I created pipelines to scrap textual data from Twitter and executed a **Sentiment Analysis** script in Persian.

Teaching.....

Teacher Assistant

Tehran, Iran

Azad University, Central Tehran Branch(IAUCTB)

2019 Jan - 2019 May

TA of **Operational Systems** course in Spring of 2018-2019 at IAUCTB, Under Supervision of **Dr. Parvaneh Asghari** [✉](#)
Responsibilities: Head Teaching Assistant, Teacher in Problem-Solving classes

Python Workshop Camp Advisor

Tehran, Iran

Azad University, Central Tehran Branch(IAUCTB)

2018 Oct - 2019 Sep

Lecturer of **Python3** Workshop at IAUCTB's Computer Association. I taught Python3 basics, designed homework, and answered students' questions online.

Extracurricular Activities

President (Head of Board of Directors)

Tehran, Iran

Computer Association Central Tehran Branch, Azad University(CACTB)[↗](#)

2017 Apr - 2020 Apr

Presidnet of CACTB from 2018 to 2020.

- o Head of Executives in Critical Thinking Lecture and E-Commerce Discussion Cafe under supervision of **Dr. Navid HashemiTaba** [✉](#)
- o Head of Executives in Intro to **Data Science** and Intro to Web Development workshop jointly with FanAsa Academy
- o Technical moderator of **Machine Learning** and **Deep Learning** Study Group

Head of Student Activities Commitee

Tehran, Iran

IEEE student branch of Azad University, Central Tehran Branch(IAUCTB)

2017 Jan - 2019 Jan

Head of SAC at the Institute of Electrical and Electronics Engineers, The Student Branch of Islamic Azad University, Central Tehran Branch. Under supervision of **Dr. Fardad Farokhi** [✉](#)

- o In charge of venue creation of **IEEE Xtreme** international programming competition. Under the supervision of **Dr. Mohsen Jahanshahi** [✉](#)
- o Executive of IEEE Days from 2016 to 2019

Member of Student Activities Committee IEEE Iran Section

Tehran, Iran

IEEE Iran Section

2018 Apr - 2018 Sep

as a Member of Student activities Committee at the Institute of Electrical and Electronics Engineers Iran Section, I translated News about technologies from English to Persian

Skills

Deep Learning: Recurrent Neural Networks, Convolutional Neural Networks, LSTM, GRU, Transformers, Generative Adversarial Networks

Machine Learning: Logistic Regression, Clustering, SVM, Neural Nets, PCA, Naive Bayes, Decision Tree, and Random Forests

AI Packages: Scikit-learn, Tensorflow, Keras, Pytorch, Numpy, Pandas, Matplotlib, Jupyter notebooks, Streamlit

Programming: Skilled in Python3, C++ Familiar with: SQL, Bash Script, MATLAB, JavaScript, HTML, CSS

Social Skills: Leadership, Public Speaking, Team Working, Presentation, Critical Thinking, Time Management

Other Skills: Linux, L^AT_EX, UML, Git

Online Courses

Deep Learning Specialization [↗](#)

Tehran, Iran

Andrew Ng, *Deeplearning.ai* by Coursera

2020 Aug

Through **five interconnected courses**, learners develop a profound knowledge of the hottest AI algorithms, mastering deep learning from its foundations (neural networks) to its industry applications (**Computer Vision, Natural Language Processing, Speech Recognition**, etc.)

CS230 Deep Learning

Tehran, Iran

Stanford Online on YouTube

2020 Aug

Audited Stanford Video lectures from Stanford Online CS230. Lecturers: Andrew Ng, Kian Katanforoush my notes are available here [↗](#)

Course URL: `cs230.stanford.edu/`

Machine learning Tutorial [↗](#)

Tehran, Iran

Andrew Ng, *Stanford online* by Coursera

2019 Nov

Machine Learning Course tutorial by Stanford online in Coursera.com.

Deep Learning for NLP [↗](#)

Tehran, Iran

Reza Vasefi and Fateme Mashhadi, *FanAsa Academy* [↗](#)

2019 Aug

Deep learning for NLP using Tensorflow, Keras in Persian Language

Languages

Persian: Native proficiency

English: Full professional proficiency

TOEFL Score: To be taken soon

References

Dr. Parvaneh Asghari: Assistant professor Department of Computer Engineering of IAUCTB

p_asghari@iauctb.ac.ir

Dr. Vahe Aghazarian: Assistant professor Department of Computer Engineering of IAUCTB

v_aghazarian@iauctb.ac.ir

Alireza AkhavanPour: CTO of Shenasa-ai

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