Mehrdad Mohammadian

 Website   GitHub   in LinkedIn   ✉ Email   ☎ +989372135828

🎓 EDUCATION

Bachelor of Science Computer Engineering   **sep 2018 — now**
Islamic Azad University, Mashhad Branch   *Iran, Mashhad*

Islamic Azad University ranked **2ˢᵗ best** global universities in Iran. ↗ US news
Thesis: Anxiety prediction web app using deep learning approach based on Taylor Manifest Anxiety Scale. GitHub ↗ WebApp
Supervisor: Dr. Shabnam Shadroo
Thesis Grade: (20/20 - 4/4)

152 credits program with **overall GPA of 17.56/20 (3.5/4.00)** and **last two years GPA is (4.00/4.00)**.

Selected courses:

- Fundamentals of Computer Vision (20/20) GitHub
- Artificial Intelligence and Expert Systems (19.5/20)
- Fundamentals of Computational Intelligence (20/20)
- Fundamentals of Information Retrieval and Web Searching (20/20) GitHub
- Software Engineering (20/20)
- Algorithms Design (18/20)
- Computer Networks (20/20)
- Operating Systems (20/20)

❤ RESEARCH INTERESTS

- Deep Learning
- Computer Vision
- Natural Language Processing
- Data Science
- Machine Learning
- Data Mining

📑 JOURNAL PUBLICATIONS

Mehrdad Mohammadian, Neda Maleki, Fredrik Ahlgren, Tobias Ohlsson , Persis: A Persian Font Recognition Pipeline Using Convolutional Neural Networks (to be submitted)   **2022**

🏆 HONORS AND AWARDS

Solved 5/9 puzzles in Harvard University Puzzle Day event (CS50) ↗ certificate   **apr 2022**
Top 5% user among ~3K Iranian GitHub users for number of contributes in other public repositories ↗ link   **2022**
Solved 6/8 puzzles in Harvard University Puzzle Day event (CS50) ↗ certificate   **sep 2020**
Solved 5/8 puzzles in Harvard University Puzzle Day event (CS50) ↗ certificate   **apr 2020**
The first place in the Rokad entrepreneurship event and **received a gold coin** as a reward.
Presented the idea of an e-learning system specially for high school students called "Class Plus". ↗ certificate   **mar 2017**

💻 OPEN-SOURCE PROJECTS

Vision Kit GitHub   **apr 2022 — now**
Vision Kit is a library that included a set of useful tools for computer vision projects with TensorFlow.

PPR - Portrait Painting Recommendation System ↗ WebApp GitHub   **jan 2022**
Developed a recommendation system for portrait paintings using deep learning (MobileNet & WikiArt dataset)

Jami GitHub   **apr 2020**
Jami is a simple cross platform GUI for play some musical instrument, written in Golang.

💼 EXPERIENCE

Research ....

Research Assistant   **sep 2021 — now**
Linnaeus University, Sweden   *Remote*

Supervisor: Dr. Neda Maleki
Research on Font Recognition problem using convolutional neural networks.

Teaching

Instructed Workshops and Webinars in CSAIAUM　　　　　　　　　　　　　**sep 2021 — now**
Scientific Association of the Computer Enineering Department, Islamic Azad University　　　*Iran, Mashhad*

Instructed several webinars and workshops while membership on CSAIAUM.

- Introduction to open-source & GitHub webinar　⬀ slides　⊞ video
- How to build website using GitHub Pages (Git, Jekyll, Hugo) workshop　⬀ slides
- Tips & guides for new students of the computer engineering department webinar　⬀ slides　⊞ video
- Introduction to using cloud services for ML/DL projects webinar　⬀ slides　⊞ video
- Introduction to software 2.0　⬀ slides

Teacher Assistant
Islamic Azad University, Mashhad Branch

- **Database Course** - Assistant Professor: Dr. Ghamarnaz Tadayon　⬀ website　　　**fall 2021**

Vocational

NLP Intern　　　　　　　　　　　　　　　　　　　　　　　　　**feb 2022 — now**
Shenasa AI Company　　　　　　　　　　　　　　　　　　　　　　　*Remote*

Investigation about keyword extraction methods.

- Tools: Python, TensorFlow, Jupyter Notebook, Google Colab

Computer Vision Intern　　　　　　　　　　　　　　　　　　　**aug 2021 — sep 2021**
Veerasense Company　　　　　　　　　　　　　　　　　　　　　　*Iran, Mashhad*

Investigated & examined CNN architectures such as YOLO, SSD, and CenterNet in object detection area.
In while undergraduate internship program of the university.

- Published fixed version of the CenterNet model , for running on Google Colab GPUs and make some experiments with different backbones on custom dataset. ⊙ GitHub
- Tools: Python, TensorFlow, Jupyter Notebook, Google Colab

Back-End Developer　　　　　　　　　　　　　　　　　　　　**apr 2019 — mar 2020**
Profile Digital Company　　　　　　　　　　　　　　　　　　　　*Iran, Mashhad*

The Profile is a social network for Persian language specialists.
Developed & maintained infrastructure services in the back-end side using micro-service architecture.

- Developed Services: search, recommender, and user profile.
- Tools: Golang, Python, Mongo DB, Elastic Search DB, Web Scraping, Docker, GNU/Linux, Git

Computer Technician　　　　　　　　　　　　　　　　　　　　**sep 2018 — apr 2019**
Kimiya Industry Company　　　　　　　　　　　　　　　　　　　　*Iran, Mashhad*

The Kimiya Industry works on the production of traffic signs and traffic equipment.

- Maintained website, designed traffic signs and content creator.
- Tools: WordPress, PhotoShop

</> SKILLS

Programming	Skilled in Python & Golang, Familiar with C++, MATLAB, HTML, CSS
Packages	TensorFlow, Keras, Scikit-learn, Numpy, Pandas, Matplotlib, Jupyter Notebook
Other Tools	Git, GNU/Linux, LaTeX, Overleaf, RapidMiner, Streamlit, Figma
Soft Skills	Brainstorming, Presentation, Team Leader

👥 EXTRACURRICULAR ACTIVITIES

Main Member of the Scientific Association (CSAIAUM)　　　　　　　　　**sep 2021 — now**
Scientific Association of the Computer Engineering Department, Islamic Azad University　　*Iran, Mashhad*

As a main member of the CSAIAUM contributed to the following activities:

- Instructed and organized workshops & webinars
- Managed GitHub & social media
- Collaborated for create content

Founded Persian Association of the Scikit-learn   **dec 2020 — now**
sklearn.ir   *Iran, Mashhad*

Translated the official tutorials & documentations to Persian.   ⬈ our website   ◯ GitHub
Our association **introduced in official website** of the scikit-learn.org   ⬈ link

Translated the Machine Learning Course of Andrew NG   **sep 2020 — dec 2020**
mehrdad-dev.ir   *Iran, Mashhad*

Published notes and translated contents in while of completing this course.
Till this moment **10K unique user with 21K session** visited the website and
average duration of the reading contents is **5min 27sec**.   ⬈ website   ◯ GitHub

✴ ONLINE COURSES

Deep Learning and Computer Vision   ⬈ certificate   ◯ GitHub   **feb 2022**
Diginext Academy, By Alireza Akhavan Pour

Machine Learning in Python with Scikit-learn (official course)   ⬈ certificate   **jul 2021**
scikit-learn.org & france université numérique

Machine Learning Course   ⬈ certificate   **oct 2020**
Stanford Online in Coursera, By Andrew NG

Introduction to Git   ⬈ certificate   **may 2020**
Datacamp.com

🗚 LANGUAGES

- Persian (Native)
- English (TOEFL iBT will be taken soon)

🧩 HOBBIES

- Try to learn how to play violin
- Watching Sci-Fi movies about space
- Travel to the mountains and valleys

❝ REFERENCES

Dr. Mehrdad Jalali
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