Ashkan Yaghubi

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Personal Profile

Passionate Computer Engineering student at Islamic Azad University, Karaj, with a foundation and experience in Machine Learning. I'm interested in ML Systems and Applied AI challenges. Dealing with the complexities of applying ML algorithms to real-world situations piques my interest.

Education

Islamic Azad University   *Karaj, Iran*

B.Sc. in Computer Engineering   *Sept 2019 - Ongoing*

- CGPA: 17/20
- Final Project: "NeuroDetect: Brain Tumor Detection Desktop App"
- Advisor: Amineh Amini

Interests

Deep Learning	Data Science
Reinforcement Learning	Computer Vision

Selected Courses

Artificial Intelligence and Expert Systems: 18.5/20	Algorithm Design: 16.5/20
Engineering Probability and Statistics: 17.5/20	Web Search and Information Retrieval: 18/20
Database Systems Implementation: 18/20	Advanced Programming: 17/20

Projects and Research Experience

Dynamic Pricing: A web application using ML to have real-time pricing for cell packages   *2021, 2022*

Machine Learning Engineer • Collaborated with a five-member team.

- In the real-time pricing project for Rightell Corporation, we developed a web application to predict cellular packages, including messages and internet prices. Our application demonstrated remarkable accuracy in predicting cell packages, closely aligning with the current offerings of the company. It efficiently extracted package information from rival companies, allowing instant comparison with our projections.
- Our team finished 2nd in Iran
- I became a member of INEF (Iran's National Elites Foundation), Iran's highest honor
- **Technical Skills:** Python with NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Tensorflow, Flask, HTML, CSS, and JS.
- **Soft Skills:** Reliability, Teamwork, Public Speaking, Logical Thinking, Flexibility, and Presentation skills.

Driving Cycle prediction model for buses in Tehran   *2020 - 2021*

Machine Learning Engineer and Leader • Led a three-person team to develop a driving cycle that models the driving behaviors of the people of Tehran.

- Our micro trip-based cycle, from Enghelab Square to Tajrish Square, involved data collection through onboard measurement, followed by data filtration. The cycle comprised three clusters (Congested, Urban, and Highway) and spanned 1500 seconds.
- Our team finished 4th in Iran
- **Technical Skills:** Python with Pandas, Numpy, Matplotlib, Seaborn, Scikit-learn, and SPSS.
- **Soft Skills:** Leadership, Presentation skills, Curiosity, Teamwork, Empathy, and Reliability.

Smart Bag   *2016, 2017*

I did this project in High School with my classmate

- An electrical board that can be installed on any bag. Using RFID to check necessary things, an LCD is used to show what is missing.
- Recognized in two national competitions. First in the province in the Khwarizmi Youth Awards
- **Technical Skills:** C, CodeVisionAVR, and Proteus.
- **Soft Skills:** Critical Thinking and Teamwork.

Skills

Programming	Python ●●●●●, CSS/HTML ●●●●●, JavaScript ●●●●◐, SQL ●●●●◐, and C++ ●●●●◑. Also familiar with CodeVisionAVR and R.
Python Libraries and Frameworks	Numpy, Pandas, OpenCV, Scikit-learn, Pillow, Tensorflow, Matplotlib, and Flask. Familiar with RE, NLTK, PyTorch, Selenium, BeautifulSoup, Gymnasium - Gym, Pygame, and Seaborn.
Miscellaneous	Linux ●●●◑◐, Tableau ●●●●◐, Microsoft Office ●●●●●, Proteus ●●●●◐, Visual Paradigm ●●●●◑, Git ●●●●◑, and LaTeX ●●●●●.
Soft Skills	Presentation Skills, Mentoring, Reliability, Brainstorming, Curiosity, Problem Solving, and Public Speaking.

Achievements

2022	**Member**,	Iran's National Elites Foundation
2022	**2nd Position**,	National AI Competition
2021	**4th Position**,	National AI Competition
2017	**1st in the province**,	Khwarizmi Youth Awards

Interests

Stargazing	I love stargazing. I go to the Maranjab Desert with my telescopes to capture the eternal dance of the stars.
AI	For me, AI is more than a career. Sometimes my favorite thing to do is read about AI.
Art	My passion for Spanish Flamenco led me to play guitar. My favorite one is Malaguena by Lucas Imbiriba.
Video Games	My solace comes from playing historical video games like the Total War Series.
Soccer	I have played soccer since childhood. I was a goalkeeper in one of Karaj's professional teams when I was 14. Now I attend Persian podcasts discussing the English Premier League.

Languages

English	Professional proficiency - TOEFL: 100/120
Persian	Native proficiency
Turkish	Limited Working Proficiency
French	Elementary Proficiency

This resume was last updated in November 2023.