Yassaman Ommi

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EDUCATION

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran.
Bachelor of Computer Science
Ranked among top 0.01% participants in the national entrance exam
Thesis: Applications of Deep Learning in Drug Molecules Generation and Development (**Supervisor**: Dr. Amin Gheibi)
2017 - (Expected) 2021   GPA: 16.92/20 (3.50/4.0 - Last Two Years: 4.0/4.0)

Nokhbegan Allameh Tabatabaei High School, Tehran, Iran.
Diploma of Mathematics and Physics
Semifinalist in Olympiad on Astronomy and Astrophysics
Semifinalist in Olympiad on Physics
Ranked 1st among 140 students
2013 - 2017   GPA : 19.8/20

PUBLICATIONS

Deep Graph Generators: A Survey
Faezeh Faez, <u>Yassaman Ommi</u>, Mahdieh Soleymani Baghshah, Hamid R. Rabiee - IEEE Access, vol. 9, pp. 106675-106702, 2021 doi: 10.1109/ACCESS.2021.3098417.

CCGG: A Deep Autoregressive Model for Class-Conditional Graph Generation
Matin Yousefadabi*, <u>Yassaman Ommi</u>*, Faezeh Faez, Amirmojtaba Sabour, Mahdieh Soleymani Baghshah, Hamid R. Rabiee - (In Submission / Available at ArXiv / *Equal Contribution)

RESEARCH EXPERIENCE

Undergraduate Research Assistant, Data Science and Machine Learning Lab.
(Sharif University of Technology)
2019 - now
Contributed in projects about social network mining and fake news mitigation. Participating in a deep graph generation project. For now, working on an ECG signal processing project for heart disease recognition.

Undergraduate Researcher, Complex Network Group
(Sharif University of Technology)
(Summer) 2020
Participated in fake news (NLP-based approach) and epidemic diseases spreads projects.

TEACHING EXPERIENCE

Teacher Assistant at Sharif University of Technology
Machine Learning Course, Dr. Abbas Hosseini, Fall 2020
Data Mining (Graduate) Course, Prof. MohammadAmin Fazli, Spring 2020

Teacher Assistant at Amirkabir University of Technology
Social Media Computing (focusing on NLP), Prof. Mohammad Akbari, Fall 2020

PROFESSIONAL EXPERIENCE

Machine Learning Internship Supervisor, Rahnema College.
(Spring) 2021
Supervised and helped a group of interns with their project (anomaly detection in https server log), during their internship.

Internship Supervisor, IPM Institute for Research in Fundamental Sciences.
(Summer) 2019
Supervisor in INO (Iranian National Observatory) summer internship. The projects involved automating the observatory monitoring process with weather prediction, cloud detection, and telescope mount training.

Product Researcher, Rahnema Co.
(Summer) 2019
Designed an online code judging system for a programming exam platform.

Machine Learning Intern, Rahnema College. (Certificated)
(Winter) 2019
Learned about the mathematical foundation of machine learning, deep learning, and many other concepts in this internship. Projects included:
- Facial Expression Recognition
- Humpback Whale Detection (Kaggle's Contest)
- Push Notification Recommender System
- Hotel Assistant Chatbot

Research Assistant, IPM Institute for Research in Fundamental Sciences.
(Iranian National Observatory Division)
2018 - 2020
Developed a web-panel (Barsavosh) to manage and prioritize observation proposals for INOLA (Iraninan National Observatory Lens Array), and a micro-service (Shekarchi) to fully-automate it.
Worked on implementing a reinforcement learning system on the telescope's mount for tracking astronomical objects and a classification system to detect them in images.

SKILLS	**Programming/Tools/Frameworks:** C, C++, Python, Docker, Django, Flask, Go, Matlab, LaTeX, Bash, SQL **Data Science/Machine Learning:** Pandas, NumPy, SciPy, OpenCV, Networkx, Scikit-Learn, PyTorch, Spark, Tensorflow, NLTK, RDKit
LANGUAGES	**Persian** (Native) **English** (Fluent) **Arabic** (Basic)
ACADEMIC SERVICE	**Workshop Mentor, Sharif Machine Learning Skill-Up.** **(Sharif University of Technology/Quera)** **October 2019** Skill-Up was an event on AI and machine learning. I was a mentor in its workshop "Hands on Data Science" which focused on coding for real machine learning applications.
TEST SCORES	**TOEFL:** R:25, L:30, S:24, W:29 **GRE:** V:152, Q:165, W:4