Ahoora Mahmoom

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As of October 2022

Education

- **Department of Computer Engineering, Qazvin Azad University** — Iran
  Master of Science in Software Engineering; GPA: 3.54/4 - The top rank student in major — *2019 – 2022*
- **Department of Computer Engineering, Qazvin Azad University** — Iran
  Bachelor of Science in Information Technology; Thesis Score: Excellent — *2014 – 2019*

Research Interest

- **Machine Learning**
- **Natural Language Processing**
- **Robotics**

Experience

- **Mechatronic Research Lab (MRL)** — Iran
  Programmer and Researcher — *2020 - Present*
  - **Reinforcement learning**: Improve the convergence of algorithm.
- **SYNTECH Technology and Innovation Center** — Iran
  Researcher — *2016 - 2016*
  - **Convex hull algorithm**: Implementation in Recognition of Boundary in robotic soccer Field.
- **Computer Society of Qazvin Azad University (QIAU)** — Iran
  Voluntary — *2014 - 2019*
  - **Web development**: Design and developed the website and made a journal for the computer society.

Teaching Experience

- **Mechatronic Research Lab (MRL)** — Iran
  Trainer the new members of the robotics team — *2021 - Present*
- **Department of Computer Engineering, Qazvin Azad University** — Iran
  Fundamental of Computer and Programming — *2015 - 2015*

Projects

- **Regular Expression**: This project is about information extraction with the most straightforward way to find some data that is important to our task, so I implemented this project from scratch utilizing python.
- **Algorithm Convergence**: This project is a novel algorithm DROO based on reinforcement learning that uses order-preserving for quantization to make a data sample for training. To improve the convergence, I made it better by Policy gradient.
- **Web Crawler**: This project was defined by professor Haghighat in my distributed system course, so that I implemented this project from scratch utilizing python without employing any related library.
- **Recognition Boundary of Soccer Field**: This project is in my bachelor's. The robot should not leave the playing field. For this reason, it must recognize the end of the soccer field. We used a convex hull algorithm for this project.
- **Web Development**: This project is in my bachelor's. I designed and developed a website for a computer society of Qazvin Azad University, and I Dockerized this project.

Test Score

- **GRE**: The Exam date: Dec 19
- **TOEFL**: The Exam date: Dec 3

Skills

- **Languages**: Kurdish(Native), Persian(Native), English(Fluent)
- **Programming Language**: Python
- **Familiar with**: Shell Script, Lua, Go, C/C++
- **Misc**: Linux, PyTorch, git, Docker, LaTeX