Sepehr **Ghobadi**

gsepehr98@gmail.com | https://github.com/sepiosky | linkedin.com/in/sepehr-ghobadi/

Education

Sharif University of Technology
Tehran, Iran

M.Sc. in Artificial Intelligence — *2021 - 2023*

- GPA: 19.70/20
- Courses: Machine Learning(20/20), Advanced Machine Learning [Deep Multi-Task/Meta/Continual Learning](20/20), Stochastic Processes(19.3/20), Game Theory(20/20), NLP(19.2/20), Information Theory and Coding (Current Semester)

University of Tehran
Tehran, Iran

B.S. in Computer Engineering (Minor) — *2019 - 2021*

- GPA: 17.63/20
- Selected Courses : Fundamentals of Programming (20/20), Advanced Programming (19.2/20), Data Structures and Algorithms (20/20), Design and Analysis of Algorithms (20/20), Artificial Intelligence(20/20)

University of Tehran
Tehran, Iran

B.S. in Mechanical Engineering (Major) — *2016 - 2020*

- GPA: 15.47/20
- Selected Courses With Grade A (+16 of 20) : Probability and Statistics in Engineering, Engineering Mathematics, Calculus 2, Automatic Control, Mechatronics,Fundamentals of Computer and Programming

Research Interests

- Reinforcement Learning
- Meta Learning
- Generative Modeling
- Robotics

Research Experiences

Improving OOD Detection with Hybrid Generative-Discriminative Models
RIML Lab, Sharif University of Technology — *2022 - 2023*

- Under Supervision of Dr. Mohammad Hossein Rohban and Dr. Mahdieh Soleymani
- Ongoing Project

Exploration in Meta Reinforcement Learning
RIML Lab, Sharif University of Technology — *2021 - 2022*

- Under Supervision of Dr. Mohammad Hossein Rohban
- Improving exploration behaviour of meta-RL algorithms by using prediction error of a dynamic ensemble of world models as a proxy for exploration objective.

Design and Experimentation of Cable-Driven Ball and Plate Controller
Advanced Instrumentation Lab, University of Tehran — *2020 - 2021*

- Under Supervision of Dr. Moosa Ayati
- as a part of bachelor thesis I designed and implemented physical structure, perception system and PID controller of a 5-DOF cable-driven manipulator of a flying plate to control the position of a ball on it while plate is moving in space by cables.

Teaching and Mentoring Experiences

Automatic (Linear) Control, Held all TA sessions. Designed course projects as chief TA. — *spring 2020*

Probability and Statistis in Engineering, preparing homeworks — *fall 2019*

UT Mechatronics Students Association, I helped with teaching, mentoring and preparing materials for several summer courses in C++, Python, Matlab, Arduino and ... — *2017-2018*

Honors & Awards

2021 **1st Rank,** Nationwide MSc entrance exam in Computer Engineering/Artificial Intelligence (among 9000 undergrad students)

2020 **3rd Rank,** Nationwide MSc entrance exam in Computer Science/Algorithms (among 2000 undergrad students)

2016 **400th Rank,** Iran's Nationwide Undergraduate Exam (among 160000 high school students)

2014 **Top 1 percent ,** (top 100 from 13000 students), National Olympiads in Math and Informatics

Work Experiences

Karlancer *Tehran, Iran*

Software Engineer *Feb. 2020 - Jan. 2021*

- Karlancer is a fast-growing freelancing platform that acquired +50000 users in its first year
- Rapidly designed customized features and developed high performance Restful APIs based on business needs
- Designed and Developed Frontend of an admin panel for the executive team of Karlancer
- Developed an optimized search engine and monitoring system using Elasticsearch
- Technologies: PHP/laravel, Python/Django, Angular, Elasticsearch, SQL

Online Courses

Deep Learning

- Deep Learning Specialization (Coursera) [Certificate]
- TensorFlow Developer Professional Certificate (Coursera) [Certificate]
- Stanford's CS330: Deep Multi-Task and Meta Learning by Chelsea Finn
- Stanford's CS231n: Deep Learning for Computer Vision

Reinforcement Learning

- Reinforcement Learning Specialization (Coursera) [Certificate]
- UCL Course of RL by David Silver
- Berkeley's CS294: Deep RL by Sergey Levine
- Alberta's CMPUT653: Theoretical Foundations of Reinforcement Learning by Csaba Szepesvári

Cloud Computing Concepts

University of Illinois at Urbana-Champaign

Certificate

Skills

PyTorch, JAX, Scikit-Learn

C, C++, Python, Golang, Javascript, Matlab

Data Structures and Algorithms, Object-Oriented Programming, Design Patterns

Django, Laravel, Angular, Linux, Docker