Sadra Berangi
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ACADEMIC BACKGROUND

- Student of Bachelor of Computer Engineering, Shahid Beheshti University (National University of Iran), Tehran, Iran. (2021-Present)

Publications:

- An Explainable Deep Learning Method based on Sinc Filters to Diagnose Parkinson's Disease Severity by Gait Cycle Analysis (submitted, Elsevier- Biomedical Signal Processing and Control)
- A Deep Reinforcement Learning Approach Combining Technical and Fundamental Analyses with a Large Language Model for Stock Trading (submitted, Iccke)
- A paper about biomedical Image Processing (currently working on)

Research and Teacher Assistant:

- Research Assistant, Dr.Salimi-Badr (2022–Present)
- Teaching Assistant, Signals and Systems Course, Dr.Salimi-Badr
- Teaching Assistant, Principles of Compiler Design Course, Dr.Alidoost nia
- Teaching Assistant, Advanced Programming Course, Dr.AliAkbary
- Teaching Assistant, Advanced Programming Course, Dr.Vahidi
- Teaching Assistant, Formal Languages and Automata Theory Course, Dr.Ghavami Zadeh
- Teaching Assistant, Introduction to Programming Course, Dr.AliAkbary

Certificates

- ML, DeepLearning.ai, 2023
- Deep Learning (CNN, NLP, Structuring ML Projects, …), DeepLearning.ai, 2023
- Django, Meta, 2023
- Advanced Python, Shahid Beheshti University, Scientific Association of Computer Engineering, 2022
- Introduction to Python, Shahid Beheshti University, Scientific Association of Computer Engineering, 2022
- Introduction to Linux, Shahid Beheshti University Scientific Association of Computer Engineering, 2022
- Security Hackathon, Quera, 2023
- Front-End Shahid Beheshti University, Scientific Association of Computer Engineering 2022

Projects

- Controlling and vision of mavic 2 pro quadcopter using RL and CNN
- Predicting financial stocks using NLP and RL
- Classification of workload types in kernel using DNN and random forest
- Prediction of Parkinson disease using AI
- Audio processing and Image processing using Convolution
- Tron AI agent using genetic and mini-max algorithms
- Optimizing Swimmer agent using RL and PPO algorithm

PROGRAMING SKILLS

Python, ML frameworks (Tensorflow, Pytorch, …), MATLAB, Flask, Django, SQL, Linux, Flutter, Java, C/C++/C#, git,unity,OpenCV

Awards

- top 0.1% ranking in the national university entrance exam (Konkur)
- Qualified for the first stage of National Physics Student Olympiad

Language SKILLS

- English (Advanced),
- Persian (mother language).

Important Scores:

- GPA: 18.23/20
- Reinforcement Learning: Scored 19.83/20
- Artificial Intelligence and Expert Systems: Scored 19.93/20
- Advanced Programming: Scored 20/20
- Fundamentals of Robotics 18.92/20
- Differential Equations: Scored 20/20
- Signals & Systems: Scored 19.9/20
- Physics II: Scored 19.5/20
- Principles of Compiler Design: Scored 19.5/20
- Fundamental of Computer and Programming 19.76/20