Reza Shami Tanha

 $Web site: \ rezashami.github.io$

Email: reza.sh.tanha.study@gmail.com LinkedIn: reza-tanha-112807110 GitHub: github.com/rezashami

Skype ID: reza.sht

EDUCATION

Institute for Advanced Studies in Basic Sciences (IASBS).

Zanjan, Iran

MSc in Artificial Intelligence, GPA: 16.72/20.00

2019-2023

- Thesis: "Firefighting with Autonomous UAVs using Deep Reinforcement Learning"
- Suprevisors: Dr. Mohsen Afsharchi, Dr. Mohsen Hooshmand

Institute for Advanced Studies in Basic Sciences (IASBS).

Zanjan, Iran

B.S. in Information Technology (IT), GPA: 15.94/20.00

2014-2018

- Thesis: "Designing and Implementing A Mobile Phone System to Remind when to Take Medicine"
- Suprevisor: Dr. Ebrahim Ansari

Research Interests

- Machine Learning
- Reinforcement Learning
- Multi Agent Reinforcement Learning
- Graph Neural Networks

Publications

- [1] R. Shami Tanha, M. Sadighian, A. Zabihian, M. Hooshmand, and M. Afsharchi, "MAD-TI: Meta-path aggregated-graph attention network for drug target interaction prediction", presented at the 2023 31st International Conference on Electrical Engineering (ICEE), 2023.
- [2] A. Zabihian, F. Z. Sayyad, S. M. Hashemi, R. Shami Tanha, M. Hooshmand, and S. Gharaghani, "DEDTI vs IEDTI: Efficient and predictive models of drug-target interactions", *Scientific Reports*, vol. 13, pp. 1–18, 2023. [Online]. Available: https://doi.org/10.1038/s41598-023-36438-0.

Relevant Graduate Courses Passed

- Machine Learning, 2020
 - Bishop, Christopher M. (2006). "Pattern recognition and machine learning". New York :Springer,
- Advanced Data Mining, 2020
 - Han, J., Kamber, M. & Pei, J. (2012). "Data mining concepts and techniques", third edition Morgan
- Deep Learning, 2020
 - Bengio, Y. (2016). "Deep Learning". MIT Press.
- Advanced Artificial Intelligence, 2019
 - Russell S. J. & Norvig P. (2010). "Artificial intelligence: a modern approach (3rd ed.)". Pearson.
- Multi Agent Systems, 2020
 - Wooldridge, M. (2009). "An introduction to multiagent systems". John wiley & sons.

EXPERIENCES

Research Assistant at IASBS, Departement of Computer Sciences and IT
 Supervisor: Dr. Mohsen Hooshmand
 Freelancer Website Developer
 Develop and maintain an online questionnaire website, online.iran.liara.run

TEACHING

•	Teaching Assistant at IASBS, Departement of Computer Sciences and IT Course name: Reinforcement Learning, Teacher: Dr. Mohsen Hooshmand	Fall 2022
•	Teaching Assistant at IASBS, Departement of Computer Sciences and IT Course name: Advanced Data Mining, Teacher: Dr. Zahra Narimani	Winter 2022
•	Teaching Assistant at IASBS, Departement of Computer Sciences and IT Course name: Multi Agent Systems, Teacher: Dr. Mohsen Afsharchi	Winter 2021
•	Teaching Assistant at IASBS, Departement of Computer Sciences and IT Course name: Advanced Programming, Teacher: Dr. Ebrahim Ansari	Spring 2017
•	Teaching Assistant at IASBS, Departement of Computer Sciences and IT Course name: Data Structures, Teacher: Dr. Mehdi Khosravian	Winter 2016
•	Teaching Assistant at IASBS, Departement of Computer Sciences and IT Course name: Basic Programming, Teacher: Dr. Ebrahim Ansari	Fall 2015

Computer Skills

Programming languages:

- C++ (expert)
- Python (expert)
- JavaScript (experienced)
- Java (good knowledge)

Back-End:

- Node.JS (experienced)
- Express.JS (experienced)
- PHP (experienced)
- XAMP (experienced)

Databases:

- MongoDB (good knowledge)
- MySQL (experienced)

Operation Systems:

- Linux
- Windows

Machine Learning and Deep Learning:

- PyTorch, TensorFlow
- NumPy, SciPy, Keras, Pandas
- \bullet Matplotlib

Front-End:

- Html, CSS, JavaScript (experienced)
- Bootstrap (experienced)
- jQuery (experienced)

Scientific software:

• MATLAB (experienced)

Others:

- LATEX(good knowledge)
- Heroku (good knowledge)
- Git (experienced)
- Express JS and mongoose libraries in Node.JS

LANGUAGE SKILLS

Persian: Native Azari: Native

• English: Intermediate

Conferences and Seminars Attended

- Computational methods for modelling bionano interactions and nanomaterials functionality workshop (26 –28 June2023, CECAM-IRL-Online), https://www.cecam.org/workshop-details/1231
- 31st International Conference on Electrical Engineering (ICEE) (9–11 MAY 2023, Electrical Engineering Department, Amirkabir University of Technology), https://iceeconf.ir/2023
- Fifth IPM Advanced School On Computing & Artificial Intelligence (5–8 SEP 2021, Online)
- PyTorch Workshop (4–7 SEP 2021, Computer Science Department, IASBS)

Interests and Hobbies

- · Reading books
- Traveling

REFERENCES

• Dr. Mohsen Hooshmand

Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran Assistant Professor

- Thesis supervisor
- Email: mohsen.hooshmand@iasbs.ac.ir
- Website: https://iasbs.ac.ir/~mohsen.hooshmand

• Dr. Zahra Narimani

Institute for Advanced Studies in Basic Sciences (IASBS), Zanjan, Iran Assistant Professor

- Email: narimani@iasbs.ac.ir
- Website: https://iasbs.ac.ir/~narimani