Kiana Asgari

Curriculum Vitae

RESEARCH INTERESTS

Reinforcement Learning.

High dimensional Probability.

Bandit.

EDUCATION

Sharif University of Technology, Double-Major B.Sc. in Computer Science B.Sc. in Mathematical Science GPA: 19.10/20.00	Tehran, Iran 2018–Current
Farzanegan High School (NODET). Diploma in Mathematics and Physics Affiliated with Iran national organization for development of exception	Zanjan, Iran 2014–2018 al talents
Relevant Courses	
 Information Theory in Statistical Learning (Graduate Course) Analysis of Algorous ongoing ongoing 	•
presented by Dr. Yassaee • Data Structures	,
• Machine Learning Theory(Graduate Course) 20/20 presented by Dr. maddahali 20/20 presented by Dr. Maddahali	
 Deep Learning(Graduate Course) Advanced Programmer 18.6/20 presented by Dr 	-
presented by Dr. Beigy • Linear Algebra	18.7/20
• High Dimensional Probability(Graduate Course) 19.7/20 presented by Dr	,
presented by Dr. Yassaee • Mathematical A	Analysis 1&2 20/20
• Convex Optimization(Graduate Course) 20/20 presented by Dr. Tefagh	c. Moghadasi
• Introduction to Cryptography(Graduate Course) 20/20 presented by Dr. Khazai	
RESEARCH EXPERIENCE	

Reward Shaping -Reinforcement learning agents point of view

16 Feb. - 16 Aug. 2023

Max Plank Institute for software system internship program.

implementing reward shaping benchmark -will be public after the end of the program

Supervisor: Adish Singla

Reinforcement learning in Blockchain

Ongoing

Bachelor Thesis.

Supervisor: Dr. Tefagh

Bayesian Neural Networks for deep learning users

Based on Work of LAURENT VALENTIN JOSPIN

Supervisors: Dr. Beigy, Dr. Yassaee

Agnostic Federated Learning

fall 2020

Spring 2021

Based on Work of Mohri et al. Supervisor: Dr. MaddahAli

How to Construct constant-Round Zero-Knowledge Proof System for NP

Summer 2020

Based on Work of O. Goldreich, A. Kahan.

Supervisor: Dr. khazai.

Cartan Subalgebras in Dimension Drop Algebras

Summer 2020

Based on Work of Dr. Sven Raum.

Supervisor: Dr. Raum.

PROJECTS

Bayesian Neural Network (Spring 2021)
Implementing BNN based on Variational

inference with Pytorch

LP Solver (Spring 2020)
Implementing LP Barrier Method with infeasible start Newton Method using DCP programming

Chicken Invaders Simulation (Summer 2019)
Implementing Multiplayer Game with Java Socket
Programming

Gas Simulation (fall 2018)

Simulation of gas molecules collision using Java Swing

TEACHING EXPERIENCES

Teaching Assistant, Applied Linear Algebra, Dr. Tefagh (Applications of Linear Algebra in Machine Learning)

Spring 2021

Teaching Assistant, Probability and Applications, Dr. Barzegar

Fall 2020

SKILLS LANGUAGES

• **Programming Languages:** Java, Python, MATLAB, C++.

• Python Libraries: NumPy, Pytorch, TensorFlow, Socket.

• Non Linear Programming: Disciplined Convex Programming (DCP)

• Data Base: MySql.

• Document preparation: LATEX, Microsoft Office.

Persian: nativeEnglish: fluent

HONORS

• Attending CMMRS school at Max Planck Institute (MPI)

Summer 2021

• University Entrance Examination (Konkur) 2018 Ranked 217 among more than 200,000 participants (top 0.1 %) in Undergraduate Mathematical University Entrance Exam

• Member of Iran's National Elites Foundation (INEF)

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