Tanya Djavaherpour

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Education

Amirkabir University of Technology (Tehran Polytechnic) Tehran, Iran
B.Sc., Computer Engineering Sep. 2018 – Present
Passed Courses: 120/140 credits, *GPA: 3.97/4 (18.48/20)*
Last Two Years: 65 credits *GPA (65 Credits): 4/4 (18.85/20)*
Highlighted Courses:

Applied Linear Algebra: 19.2/20	Advanced Programming: 20/20
Engineering Statistics: 20/20	Data Structures and Algorithms: 19/20
Algorithm Design: 19.25/20	Artificial Intelligence: 20/20
Computational Intelligence : 18.5/20	Database Design Lab.: 19.75/20

Farzanegan (2) High School Tehran, Iran
Diploma, Mathematics and Physics Discipline Sep. 2014 - Jun. 2018
National Organization for Development of Exceptional Talents (NODET)
GPA: 19.78/20

Research Experience

Research Intern, IPM Institute for Research in Fundamental Sciences Jul. 2021 – Oct. 2021
Research on AI-based financial market analysis approaches, focusing on testing available DL architectures and for each analytic model construct a new hybrid model that aggregates ports of old models.
Under the supervision of Dr. Rahmati & Dr. Gorgin.

Publications

Investigation of Sadness on Brain Mathematical Ability Using Musical and Semantical Excitation Dec. 2019
Ali Davoodi Moghadam, Ali Jamali, Tanya Djavaherpour, Behrad Taghibeyglou, 8^{th} *Conference of Basic and Clinical Neuroscience Congress, Razi Hall, Tehran, Iran.* Link to ResearchGate

Notable Projects

Snail Jumper: An Evolutionary Game with Genetic Algorithm and Neural Network Link to GitHub Jun 2022
Heart Disease Diagnosis-Fuzzy Sys: A Heart Disease Diagnosis System Using Fuzzy Expert System Link to GitHub Jun 2022
VFH-PathPlanning: Controlling and Moving a Mobile Robot from Starting Point to the Specific Goal in ROS Link to GitHub Jun 2022
CIFAR-Classification: Classifying CIFAR-10 Data by Creating a Fully Connected ANN and CNN with TensorFlow Link to GitHub May 2022
Vaccination System: An Implementation of a Vaccination System Database, Using SQL Link to GitHub Jan. 2022
Plants vs. Zombies Game: A Single and Multiplayer Game Written in Java Using Swing and Graphics 2D Link to GitHub Feb. 2021

Teaching Experience	**Principles of Artificial Intelligence**	Fall 2022
	Teaching Assistant, Instructor: Dr. Javanmardi	
	Advanced Programming	Spring 2022
	Teaching Assistant, Instructors: Dr. Zeinali & Dr. Kalbasi	
	Algorithm Design	Spring 2022
	Teaching Assistant, Instructors: Dr. Bagheri & Dr. Shahreza	
	Microprocessor and Assembly Language	Spring 2022
	Teaching Assistant, Instructor: Dr. Farbeh	
	Fundamentals of Computer Programming	Fall 2021
	Teaching Assistant, Instructor: Dr. Zeinali	
	Fundamentals of Computer Programming	Fall 2020
	Teaching Assistant, Instructor: Dr. Salari	

Technical Skills	**Programming Languages:** Java, Python, C, MATLAB
	Operating Systems: Windows, Linux(Ubuntu)
	Databases: MySQL, SQLServer
	Libraries: PyTorch, Keras, NumPy, pandas, Matplotlib.
	Engineering and Developement Tools: IntelliJ, PyCharm, Git, Arduino IDE, Proteus, Colaboratory

Honors and Awards	A^+ **Grade** in Deep Learning Implementation Workshop of AUT	2019
	3^{rd} **Place** in Deep Learning Implementation Workshop Project	2019
	Ranked Top 0.7 Among All Students in the National University Entrance Exam	2018
	1^{st} **Place** in Junior Soccer B Light Weight Super Team, RoboCup Iran Open	2015

Workshops	**Deep Neural Networks Implementation Using PyTorch**	2019
	Amirkabir University of Technology	
	Digital Fabrication and 3D Printing	2019
	Amirkabir University of Technology	
	Introduction to MATLAB Programming	2019
	University of Tehran	

Soft Skills	**Agile Methodologies:** Scrum
	Good at Communication and Team Work

Languages	**English:** Advanced, TOEFL iBT MyBest score: 95/120 (R: 22, L: 27, S:22, W: 24)
	GRE General: 299 (Q: 159, V: 140)
	Persian: Native

References	Available Upon Request.