Tanya Djavaherpour

Email (Primary): t.djavaherpour@gmail.com   **GitHub**: github.com/tanya-jp   **Cell**: +98 (912) 932-3926
Email (Secondary): javaherpour@aut.ac.ir   **LinkedIn**: tanya-djavaherpour   **Website**: tanya-jp.github.io

Education	**Amirkabir University of Technology (Tehran Polytechnic)** Tehran, Iran

Amirkabir University of Technology (Tehran Polytechnic)   Tehran, Iran
B.Sc., Computer Engineering   Sep. 2018 – Present
Passed Courses: 137/140 credits, *GPA: 3.75/4 (18.11/20)*
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 Interests

Machine Learning, Artificial Intelligence, Genetic Programming
Robotics, Game Development

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 constructing a new hybrid model for each analytical model that aggregates ports of old models.
Under the supervision of Dr. Dara Rahmati & Dr. Saeid 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, 8th 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 Experiences	**Principles of Artificial Intelligence** Teaching Assistant, Instructor: Dr. Mahdi Javanmardi	Fall 2022
	Advanced Programming Teaching Assistant, Instructors: Dr. Hossein Zeinali & Dr. Amir Kalbasi	Spring 2022
	Algorithm Design Teaching Assistant, Instructors: Dr. Alireza Bagheri & Dr. Sajjad shirali Shahreza	Spring 2022
	Microprocessor and Assembly Language Teaching Assistant, Instructor: Dr. Hamed Farbeh	Spring 2022
	Fundamentals of Computer Programming Teaching Assistant, Instructor: Dr. Hossein Zeinali	Fall 2021
	Fundamentals of Computer Programming Teaching Assistant, Instructor: Dr. Farzaneh Salari	Fall 2020

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

Honors and Awards

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

Workshops

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

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