

Melika Delafrouz Gavgani

Phone:

+98 (939) 522-0236

Email:

melika.delafrouz@gmail.com

LinkedIn:

<https://www.linkedin.com/in/melika-delafrouz-gavgani/>

Homepage:

<https://delafrouz-gavgani.github.io/>

Education

- **B.Sc.** in Computer Engineering, Azad University North Tehran Branch
Project: Neural Network-Based Recognition of Handwritten Digits
Advisor: Dr. Masumeh Damrudi (masumehdamrudi@gmail.com)
2020-2024
GPA: 3.49/4
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Research Interests

- Scientific Computing
 - Theoretical & Mathematical Foundations of machine learning
 - Data-Centric AI
 - Applied Mathematics and Numerical Analysis
 - Trustworthy AI
 - AI for Social Good
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Skills

- **Programming:** Python, MATLAB, C++, Bash, HTML, CSS
 - **ML:** Keras, Pandas, Scikit-Learn, TensorFlow, NumPy, Matplotlib, SciPy, PyTorch
 - **Databases:** MySQL, SQL Server
 - **Hardware:** Proteus Design Suite
 - **Environments:** VSCode, Jupyter, PyCharm, Google Colab, Spyder
 - **Others:** Git, IBM Rational Rose, Wireshark, Cisco Paket Tracer, Apache Beam
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Projects

- Designed, developed and implemented a neural network-based system for recognizing handwritten digits.
 - Developed and implemented various computer networks using Cisco Paket Tracer as simulation software.
 - Successfully designed and executed logical circuits and microprocessors using Proteus simulation software.
 - Successfully applied software engineering principles in hypothetical projects using Rational Rose.
 - Experience in using MATLAB for various projects.
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Experience

Teaching Assistant, Introduction to Information Technology (IT-100), Professor
Amirhossein Danishmandi, University of Applied Sciences & Technology of Karaj

Fall 2022 – Fall 2024

Selected Courses

Differential Equations	Top Mark	Signals and Systems	A+
Discrete Mathematics	Top Mark	Advanced Programming	A+
Artificial Intelligence and Expert Systems	Top Mark	MATLAB Programming Workshop	A+
Database Lab	Top Mark	Data Structures	A
Engineering Mathematics	A+	Fundamentals of Computer Programming	A
Calculus 2	A+	Object-Oriented Systems Design	A

Honors and Awards

- **ICAN Gold Medal** **2017**
For the innovation of smart wallet, Issued by Toronto International Society of Innovation & Advanced Skills (TISIAS)
- **ITEX Bronze Medal** **2017**
For the innovation of smart wallet, Issued by Malaysian Invention and Design Society

Tests

- **IELTS Academic: 7**
Test Date: June 24, 2024
 - Listening: 7.5
 - Speaking: 6
 - Reading: 7.5
 - Writing: 7
 - **GRE:**
Test Date: October 31, 2024
 - Quantitative Reasoning: 161
 - Verbal Reasoning: 146
 - Analytical Writing: 3.0
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References

- **Mohammad Misagh Javaherian (Hamedani)** (Lab Professor)
Professor of Artificial Intelligence and Computer Science, Azad University
Email: javaherian@iau.ac.ir
Email: javaherian@andisheh-samacollege.ir
 - **Masumeh Damrudi** (Project Advisor)
Assistant Professor of Computer Engineering, Azad University
Email: dr.damrudi@iau-tnb.ac.ir
 - **Arash Zaeim** (Course Professor)
Assistant Professor & Director of Performance Evaluation and Empowerment of Azad University
Email: arash.zaeim@iau.ac.ir
Email: arashzaeim@yahoo.com
 - **Shabnam Jazaeri** (Course Professor)
Assistant Professor of Computer Engineering, Azad University
Email: s.jazaeri@iau-tnb.ac.ir
Email: shabnam_0@yahoo.com
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