

# Melika Delafrouz Gavgani

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**Homepage:**

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## Education

- **B.Sc.** in Computer Engineering, Azad University North Tehran Branch 2020-2024  
Project: Neural Network-Based Recognition of Handwritten Digits GPA: 3.5/4  
Advisor: Dr. Masumeh Damrudi ( [masumehdamrudi@gmail.com](mailto:masumehdamrudi@gmail.com) )
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## Research Interests

- Data Science
  - Theoretical & Mathematical Foundations
  - Data Mining
  - Predictive Learning
  - Data Analysis
  - 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**, University of Applied Sciences & Technology of Karaj 2022-2024  
Introduction to Information Technology (IT-100)  
Supervisor: Amirhossein Danishmandi ( Amirhossein967@gmail.com )
- **Internship**, Database Administrator, Petrosazeh Beinolmelal Aram Co. 2023

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## Selected Courses

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

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## 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

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## English Proficiency

- **IELTS Academic: 7**
    - Listening: 7.5
    - Speaking: 6
    - Reading: 7.5
    - Writing: 7
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## References

- **Mohammad Misagh Javaherian (Hamedani)** (Lab Professor)  
Professor of Artificial Intelligence and Computer Science, Azad University  
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Phone: 0098938086759
  - **Masumeh Damrudi** (Project Advisor)  
Assistant Professor of Computer Engineering, North Tehran Branch, Azad University  
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  - **Arash Zaeim** (Course Professor)  
Director of Performance Evaluation and Empowerment of Azad University  
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