Melika Delafrouz Gavgani

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

Education

- B.Sc. in Computer Engineering, Azad University North Tehran Branch

  2020-2024
  GPA: 3.5/4

Research Interests

- Data Science
- Theoretical & Mathematical Foundations
- Data Mining
- Predictive Learning
- Data Analysis
- AI for Social Good

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.

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

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+		

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

English Proficiency

- **Overall: 7**

  - Listening: 7.5
  - Speaking: 6
  - Reading: 7.5
  - Writing: 7

References

- **Mohammad Misagh Javaherian (Hamedani)** (Lab Professor)
  Professor of Artificial Intelligence and Computer Science, Azad University
  Email: uni.stu@hotmail.com
  Phone: 0098938086759

- **Masumeh Damrudi** (Project Advisor)
  Assistant Professor of Computer Engineering, North Tehran Branch, Azad University
  Email: masumehdamrudi@gmail.com
  Phone: 00989396176896

- **Arash Zaeim** (Course Professor)
  Director of Performance Evaluation and Empowerment of Azad University
  Email: arashzaeim@yahoo.com
  Phone: 00989196022359