



# Mahan Keramati

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## OBJECTIVE

Seeking a challenging position in [your field] to leverage my expertise in [your key skills]. Aiming to contribute to innovative projects at the intersection of [your interests] and practical problem-solving in fields such as [specific areas of interest].















## EXPERIENCE

- **DAMGHAN MACHINE BRICK CORPORATION**  September 2022 - September 2025  
*AI Assistant* Tehran, Iran
  - Developed [specific achievement], achieving [specific metric] in [specific area]

## EDUCATION

- **K.N.Toosi University of Technology** July 2018 - July 2022  
*Bachelor of science in Mathematics and Applications* Tehran, Iran
  - GPA: 17.24/20
- **K.N.Toosi University of Technology** July 2018 - July 2022  
*Minor in Computer science* Tehran, Iran
  - GPA: 17.24/20
  - CSE Courses
    - \* Data Structures and Algorithms
    - \* Design and Analysis of Algorithms
    - \* Coding Theory
    - \* Elementary Cryptography
    - \* Logic Circuits
    - \* Numerical Linear Algebra
    - \* Theoretical Foundations of Computability
    - \* Graph Theory and its Applications

## PROJECTS

- **Implementation of Classical Multidimensional Scaling (MDS) and Isomap** October 2022  

- **Automatic keyword & Key-sentence Extraction Using NMF & SVD** November 2022  

- **Video Compression Using High Order SVD** November 2022  

- **Face Recognition Using High Order SVD** December 2022  

- **Implementation of Page Ranking Algorithm** December 2022  

- **Clustering Using Non-negative matrix factorization** December 2022  

- **handwritten Classification With QR & SVD** December 2022  

- **Denoising Image Using SVD** December 2022  

- **Implementation of Linear Regression From Scratch** February 2022  

- **Implementation of Logistic Regression From Scratch** February 2022  

- **Implementation of KNN From Scratch** February 2022  

- **Implementation of Perceptron From Scratch** January 2022  

- **Implementation of Elastic-Net Regression From Scratch** January 2022  

- **Implementation of Compute Least Angle Regression From Scratch** January 2022  


## SKILLS

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- **Programming Languages:** Python(NumPy, Pandas, Scikit-Learn), C++, Matlab, PHP
- **ML & AI:** Deep Learning(PyTorch, TensorFlow)
- **DevOps & Version Control:** Git

## HONORS AND AWARDS

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- **top student recognition award** October 2021  
*K.n.toosi University of Technology*
  - Recognized for exceptional academic performance, ranking 3rd out of 66 students in the Mathematics and Computer Science program based on cumulative GPA.
- **Direct admission to the M.Sc. program in Computer Science** July 2022  
*Amirkabir University of Technology*
  - exempted from the national entrance exam due to academic excellence.
- **Direct admission to the M.Sc. program in Applied Mathematics** July 2022  
*Iran University of Science and Technology*
  - exempted from the national entrance exam due to academic excellence.
- **Direct admission to the M.Sc. program in Data Science** July 2022  
*Tarbiat Modares University*
  - exempted from the national entrance exam due to academic excellence.
- **Direct admission to the M.Sc. program in Data Science** July 2022  
*K.N.Toosi University of Technology*
  - exempted from the national entrance exam due to academic excellence.

## CERTIFICATIONS

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- **Machine Learning Specialization by Coursera & Stanford Online** May 2023
  - \* Supervised Machine Learning: Regression and Classification
  - \* Advanced Learning Algorithms
  - \* Unsupervised Learning, Recommenders, Reinforcement Learning
- **Mathematics for Machine Learning and Data Science Specialization by DeepLearning.AI** Aug 2024
  - \* Linear Algebra for Machine Learning and Data Science
  - \* Calculus for Machine Learning and Data Science
  - \* Probability & Statistics for Machine Learning & Data Science
- **Deep Learning Specialization by Coursera & Stanford Online** Aug 2024
  - \* Neural Networks and Deep Learning
  - \* Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization
  - \* Structuring Machine Learning Projects
  - \* Convolutional Neural Networks
  - \* Sequence Models
- **Natural Language Processing Specialization by Coursera & Stanford Online** Aug 2024
  - \* Natural Language Processing with Classification and Vector Spaces
  - \* Natural Language Processing with Probabilistic Models
  - \* Natural Language Processing with Sequence Models
  - \* Natural Language Processing with Attention Models
- **Machine Learning by Coursera & Stanford Online (2011 course of Andrew NG with matlab)** Jun 2024
- **Machine Learning in Python with Scikit-Learn by INRIA & France Université Numérique** June 2024
- **Intermediate R by DataCamp** Jun 2024
- **Introduction to R by DataCamp** Jun 2024
- **Computer Vision by Kaggle** Jun 2024
- **Intro To Deep Learning by Kaggle** September 2024

## ADDITIONAL INFORMATION

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**Languages:** Persian (Native or bilingual proficiency), English (Full professional proficiency)

**Interests:** Machine Learning, Deep Learning, Generative AI, Fraud Detection

## REFERENCES

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1. **Hassan Khodaiemehr**

Assistant Professor, Faculty of Mathematics  
K.N.Toosi University of Technology  
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2. **Hossein Jowhari**

Assistant Professor, Faculty of Mathematics  
K.N.Toosi University of Technology  
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*Relationship: [e.g., Project Supervisor, Colleague, etc.]*

3. **Mohsen Rezapour**

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