

# Mohammad Rahimi

Outstanding alumni of University of Tehran

## Basic Information

Date of Birth: 1992  
Current Location: Iran  
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Git hub: <https://github.com/mrrahimy>

## Languages

- English (IELTS Academic 6.5)
- Persian

## Research Interests

My research interests include all data-driven systems that aid in the reduction or elimination of cardiovascular diseases and cancer. Specifically, I am interested in:

- Early diagnosis (proactive methods) through Computer vision or benefiting from wearable devices or micro robots
- Developing micro robots in drug delivery or removing cancer cells
- Developing molecules for anti-aging
- Developing vaccines for new epidemic diseases like Covid 19
- Developing or deploying contrastive learning algorithms in healthcare applications
- Leveraging machine learning to manipulate in gene mutation
- Analyzing healthcare big data, including monitoring behavioral activities or dietary habits, to identify the root causes of chronic or critical illnesses and proactively prevent diseases.
- Ensuring healthcare data security through the use of blockchain, cloud storage, and distributed computing technologies, there guaranteeing compliance with stringent policies.

## Education

### **M.Sc. in Industrial Engineering at University of Tehran, 2014-2017**

GPA: 18 out of 20

Master's Thesis: "A Model for Selecting Financing Methods and Project Scheduling Using MCDM Models and Mathematical Programming (Solved with GAMS)" under the supervision of Dr. Sadegh Amalnick.

### **B.Sc. in Industrial Engineering at Iran University of Science and Technology, the 11th ranked university of Iran, Tehran, 2010 –2014**

GPA: 17.34 out of 20

## Honors

- Ranked in the **top 0.5%** in the M.Sc. entrance exam (48 out of more than 8,000 participants)
- Ranked in the **top 1%** in the B.Sc. entrance exam (2500 out of more than 250,000 participants)
- Fully scholarship in the B.Sc. and M.Sc.
- Member of Iran's National Elites Foundation
- Appreciation certificate from the Deputy of Scientific and Technological Affairs of the President for the sake of collaboration in identification the knowledge-based products and companies



## Teaching experience

- Microsoft Excel, Faradars (Online course)
- Microsoft Excel for engineers, Iran University of Science and Technology, **Aug 2014**
- Data analysis, Allameh Tabataba'i University, Statistics college, **Jan 2014**
- Microsoft Excel, Iran University of Science and Technology, **Jan 2012**



## Projects

- Conducted a mathematical optimization to minimize disposals. Advisor: Dr. Majid Shakhshi Niaei.
- Evaluated substituting renewal energy in private commutes. Advisor: Dr. Abolhasani
- Designed and developed a simulator to assess extraction scenarios. Advisor: Dr. Kamran Fattahi.
- Implemented a simple banking system in C++. Advisor: Fariborz Ghasemi Feizabadi.
- Design a simulator system using diverse distributions to evaluate queue length and expected waiting values in a case study. Advisor: Dr. Alireza Moini.



## Experience

- Development a python-based for real-time gold price monitoring for retailers in windows OS ,**2025**
- Senior Data Scientist at Mofid Securities, Tehran, **2020 – Jun2024**  
Main tasks: Create data platform, design high-level decision support dashboards
- Business Process Assessor at Techchi, Tehran, **2020 –2020**  
Main task: Assess knowledge-based companies in terms of process maturity
- Data & IT Consultant (freelancer), Tehran, **2016 –2019**  
Main Tasks: Propose Instructions, workflows and Procedures, PO to user experience (UX)
- Develop a fuzzy examination marker, ranking system, and analyzer  
Project goal: visualize a participant's advancement and identify areas of strength and weakness



## Skills

### Soft skills:

- Adaptability
- Critical Thinking
- Creative Problem Solving
- Ability to Work in a Team
- Communication Skills
- Probability
- Statistics
- Linear Algebra

### Hard skills:

- Data preprocessing
- Machine learning
- Basic linux
- LaTeX
- Python (Pandas, Numpy, Selenium, Web API)
- Matplotlib, scikit learn)
- Github
- SQL Server (T-SQL)
- Microsoft Power BI (DAX, M query)
- Microsoft Excel (VBA/ Macros)
- Lingo/ GAMS



## Courses

- Fundamentals of machine learning Fall 2024
- Python (online), Stanford, **2022**
- Python (Elementary & advanced), GotoClass & MaktabKhoone (Mr. Jadi), **2021**



## References

References are available upon your request