

# Alireza Kavian

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## Education

- B.Sc in Computer Engineering**, Sep 2015-Sep 2020  
**K. N. Toosi University of Technology**, Tehran, Iran  
**GPA:** 18.4/20 (3.85/4.0)  
**Final Project Topic:** Implementation of a rational Forex trading agent using deep reinforcement learning  
**Final Grade:** 20/20  
**Supervisor:** Dr. Mehdi Esnaashari

## Research Interests

- Data Science & Deep Learning
- Computer Vision & Image Processing
- Medical Image Analysis
- Computer Graphics
- Computational Geometry
- Natural Language Processing

## Languages

- Persian:** Native
- English:** C1 – Full Professional Proficiency

(Estimated Time of IELTS Exam: October 2024)

## Work Experience

- Video/Image Editor**, Jan 2024-May 2024  
**EnglishTurbo Institute**, Tehran, Iran  
Edited Instagram videos, retouched images, and designed covers. Additionally, responsible for devising creative ideas for video content to enhance our social media presence.
- Full-Stack Developer**, Feb 2022-Sep 2022  
**Intelligent Information Solutions Center (IISC)**, Sharif University, Tehran, Iran  
Identified and corrected problems by testing or customer feedback or referred them to the appropriate personnel. Evaluated code for validity, proper structure, industry standards compliance, and compatibility across browsers, devices, and operating systems. Assessed and addressed security measures and issues.
- Remote Research Assistant**, May 2021-Aug 2021  
**Deutsches Forschungszentrum für Künstliche Intelligenz (DFKI)**, Kaiserslautern, Germany  
Supervisor: Mr. Mohammad Minouei (PhD researcher)  
Prepared concise presentations based on state-of-the-art papers about Computer Vision and related topics.
- Developer**, Jan 2019-Jan 2021  
**VornaTech Company**, Tehran, Iran  
Employed agile methods in full-stack development. Managed requirement planning and led my teams.

## Teaching Experience

- **Head Teaching Assistant**, Feb 2022-Aug 2022  
**K. N. Toosi University of Technology**, Tehran, Iran  
**Course:** Foundations of Computer Vision  
**Professor:** Dr. Behrooz Nasihatkon  
Divided TAs to two teams and coordinated each manager of both teams  
Input, organized, and maintained data related to class, students, and scores  
Supervised weekly workshops, projects, and homework assignments
- **Head Teaching Assistant**, Sep 2021-Jan 2022  
**K. N. Toosi University of Technology**, Tehran, Iran  
**Course:** Linear Algebra  
**Professor:** Dr. Behrooz Nasihatkon  
Managed the assistants and supervised the processes of holding weekly workshops  
Provided input, organized, and maintained data related to class, students, and scores  
Assessed student performance and provided feedback and guidance
- **Teaching Assistant**, Feb 2020-Jul 2020  
**K. N. Toosi University of Technology**, Tehran, Iran  
**Course:** Foundations of Computer Vision  
**Professor:** Dr. Behrooz Nasihatkon  
Provided input, organized, and maintained data related to class, students, and scores  
Helped grading, assessing student performance, and providing feedback and guidance
- **Teaching Assistant**, Feb 2019-Jun 2019  
**K. N. Toosi University of Technology**, Tehran, Iran  
**Course:** Assembly Language  
**Professor:** Dr. Behrooz Nasihatkon  
Provided input, organized, and maintained data related to class, students, and scores  
Planned and arranged weekly homework assignments  
Compiled and developed auto-grading system for assignments and projects
- **Teaching Assistant**, Oct 2018-Jan 2019  
**K. N. Toosi University of Technology**, Tehran, Iran  
**Course:** Computer Fundamentals and Programming In C  
**Professor:** Dr. Amin Nikanjam and Dr. Behrooz Nasihatkon  
Distributed tests and assignments and collected them for grading  
Helped in planning for projects and homework assignments

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## Certificates

- **Power BI Essential Training**, LinkedIn, Aug 2022
- **Foundations: Data, Data, everywhere**, Coursera, May 2022
- **Digital Signal Processing 1: Basic Concepts and Algorithms**, Coursera, Apr 2022
- **Elements of AI: Introduction to AI**, University of Helsinki, Dec 2021
- **Mathematics for Machine Learning: Linear Algebra**, Coursera, Jun 2021
- **Certified Ethical Hacker (CEH)**, Maktabkhooneh, Sep 2020
- **Machine Learning Fundamentals**, Quera, Jul 2020

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## Selected Courses

- Advanced Programming: 20/20
  - Engineering Mathematics: 20/20
  - Engineering Probability: 19.89/20
  - Fundamentals of Robotics: 19.75/20
  - Discrete Mathematics: 19.5/20
  - Algorithm Design: 19/20
  - Artificial Intelligence: 18.5/20
  - Foundations of Computer Vision: 18.25/20
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## Honors & Awards

- Ranked within the top 0.5% (25<sup>th</sup>) in Iranian University Entrance Exam for master's degree, 2021
  - Achieved the 1st rank as the top-ranked student in B.Sc. Program, K. N. Toosi University of Technology, 2020
  - Earned recognition on the Dean's list for academic excellence, K. N. Toosi University of Technology, 2018
  - Awarded B.Sc. Excellent students' scholarship by Ghalamchi Institution, Kanoon Farhangi Amoozesh, 2018
  - Achieved 1<sup>st</sup> place as the winner at Front-End challenge, Quera Website, 2018
  - Ranked within the top 1% (1465<sup>th</sup>) in Iranian University Entrance Exam for bachelor's degree, 2015
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## Computer Skills

- Programming Skills  
Python, Java, C/C++, SQL, PHP, Shell Scripting
  - Data Analysis Skills  
Excel, Power BI, MATLAB, Google Analytics, Python Libraries (NumPy, TensorFlow, OpenCV, ...)
  - Web Design and Development Skills  
HTML/CSS, JavaScript, WordPress, SEO, Responsive Design, React, Django, Bootstrap, jQuery
  - Network and System Administration Skills  
Windows Administration, Linux Administration, Cisco Networking, VMware, Docker, Web Security, Bash Scripting, Wireshark, TCP/IP, DNS, DHCP
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## References

- Dr. Behrooz Nasihatkon (Assistant Professor)  
Department of Artificial Intelligence, **K. N. Toosi University of Technology**, Tehran, Iran  
Email: [nasihatkon@kntu.ac.ir](mailto:nasihatkon@kntu.ac.ir)
- Dr. Mehdi Esnaashari (Assistant Professor)  
Department of Software Engineering, **K. N. Toosi University of Technology**, Tehran, Iran  
Email: [esnaashari@kntu.ac.ir](mailto:esnaashari@kntu.ac.ir)
- Dr. Seyed Hossein Khasteh (Assistant Professor)  
Department of Artificial Intelligence, **K. N. Toosi University of Technology**, Tehran, Iran  
Email: [khasteh@kntu.ac.ir](mailto:khasteh@kntu.ac.ir)
- Mr. Mohammad Minouei (PhD Researcher)  
**University of Kaiserslautern**, Germany  
Email: [Mohammad.Minouei@dfki.uni-kl.de](mailto:Mohammad.Minouei@dfki.uni-kl.de)

- Mr. Ali Soleymani (Work Supervisor)  
**VoranTech Company**, Tehran, Iran  
**Email:** soleymani@vornatech.com