

Mahdi Niknejad

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RESEARCH INTERESTS

- Deep Learning
- Medical Image Segmentation
- Natural Language Processing

EDUCATION

- **K. N. Toosi University of Technology** (KNTU), Tehran, Iran
M.Sc., Computer Engineering, Computer Networks (expected graduation date: Sep. 2025) *Sep. 2023 - Now*
GPA: **N/A** / 20 – Supervisor: **N/A**
- **Amirkabir University of Technology** (AUT), Tehran, Iran
B.Sc., Computer Engineering *Sep. 2017 - Sep. 2023*
GPA: **16.55** / 20 (**3.4** / 4.0) – Supervisor: Maryam A. Mazlaghani
Project Score: **19.5** / 20
- **Allameh Helli High School** (NODET)*, Tehran, Iran
Diploma, Mathematics & Physics Field *Sep. 2012 - Sep. 2016*

RESEARCH EXPERIENCES

- **Research Assistant** at *Stochastic Analysis Lab.* *September 2021 - Now*
- **Medical Image Segmentation System** - B.Sc. Project *September 2021 - August 2023*

TEACHING EXPERIENCES

- **Teaching Assistant, Algorithm Design**
Under the supervision of Hamid Hoorfar *Fall 2021*
- **Teaching Assistant, Applied Linear Algebra**
Under the supervision of Neda Shojaei *Fall 2020*

PUBLICATIONS AND TECHNICAL REPORTS

- **“Medical Image Segmentation System”** - B.Sc. Project Report (+ Oral Defense) [In Persian], AUT, 2023.
- **“Application of Transformers in Natural Language Processing and Image Processing”** - Seminar Report for Data Mining course (+ Written and Oral Presentation) [In Persian], AUT, 2022.

WORK EXPERIENCES

- **Allameh Helli High School** *July 2023 - Now*
Artificial Intelligence Educator — *Teaching Machine Learning and Deep Learning to 10th grade students*
- **Quera** *July 2023 - September 2023*
Computer Science Educator — *Teaching CS UNPLUGGED at Schools*

* National Organization for Development of Exceptional Talents

- **Roshan** *July 2021 - July 2022*
 - Natural Language Processing Intern — *Working on Neural Machine Translation(NMT) Task based on a paper. Internship Report [In Persian]*
 - Software Engineer — *Generating Segmentation Data*
- **National Elites Foundation of Iran** *December 2020 - August 2021*
 Frontend Developer — *Working on QualCode System to test Zarebin Search Engine, Under the supervision of Abbas Heydarnoori*
- **Avan Software Technology Advisors** *August 2020 - November 2020*
 Java Developer — *Working on Avan Wise System*

HONORS AND AWARDS

- Recognized as a **Scientific Talent** by the National Elites Foundation of Iran, 2020.
- **Full Tuition Waiver Scholarship** from AUT and KNTU, Iran, 2017 & 2023.
- Accepted in the 1st level of **Iranian Physics Olympiad** Exam, Iran, 2015.
- Admitted to the **National Organization for Development of Exceptional Talents (NODET)** for High School studies, Iran, 2012.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C, Go, Shell Scripting, Racket, ML, Haskell.
- **Database System:** MySQL.
- **Operating Systems:** Windows, Linux (Ubuntu).
- **Web Development:** HTML, CSS, JavaScript, ReactJS.
- **Machine Learning Frameworks:** Pytorch, Tensorflow.
- **Miscellaneous:** Git, XV6, Lex&Yacc, Wireshark, Boison Netsim, GNS3, Cisco Packet Trace, Verilog, Assembly, Arduino, Proteus, UML, \LaTeX .

LANGUAGES

- **Persian:** *Mother tongue*
- **English:** *Fluent*

REFERENCES

- **Maryam A. Mazlaghani, Associate Professor**
 Supervisor, CE, AUT
 Email: mazlaghani@aut.ac.ir
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- **Bahador B. Sareskanrood, Assistant Professor**
 Advisor, CE, AUT
 Email: bbakhshi@aut.ac.ir
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- **Abbas Heydarnoori, Associate Professor**
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