Mahdi Niknejad

Computer Eng. (CE) Dept., K. N. Toosi Univ. of Tech. (KNTU), Tehran, Iran
Email: m.niknejad@aut.ac.ir and emahdi.niknejad@gmail.com
Linkedin: https://www.linkedin.com/in/mahdiniknejad
Home Page: https://mnn59.github.io/
Cell Phone: +98 936 082 6204

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 *Statistical Data 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 Shojaee   *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.
- Achieved top **2%** place among all applicants of the Nationwide University Entrance Exam for B.Sc. in Math. and Engineering (approximately 149000 applicants), Iran, 2017.
- 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`
  Phone: +98 21 6454 2704
- **Bahador B. Sareskanrood, Assistant Professor**
  Advisor, CE, AUT
  Email: `bbakhshi@aut.ac.ir`
  Phone: +98 21 6454 2723
- **Abbas Heydarnoori, Associate Professor**
  Member of Software Group, Computer Engineering Department, Sharif University of Technology
  Email: `heydarnoori@sharif.edu`
  Phone: +98 21 6616 6648

Last Update: September 2023