Yoosef Ghaderi

yoosefghaderi2001@gmail.com |LinkedIn |GitHub

Research Interests

- NLP and Text Processing

- Reinforcement learning

Education

Tehran University of Technology   Sep 2024 – current
M.Sc software Computer Engineering, Tehran, Iran

Isfahan University of Technology   Sep 2019 – 2024
Bachelor's Computer Engineering, Isfahan, Iran

Bachelor's Project (Supervisor: Prof. Mehran Safayani):

- Project Title: Enhancing Accuracy and Precision in Neural Network Classification

- Summary: Categorizing data into easy and hard groups for better weight adjustments. High-confidence predictions are separately classified, improving accuracy and precision.

Sampad School   Sep 2016 – Sep 2019
High School of Mathematics and Physics, Aligoodarz, Iran

Honors and Awards

- Completed **NLP Course** with top grade (20). Course Link

- Completed **Statistical Inference Course** with top grade (20). Course Link

- Ranked 68th out of over 21,000 graduate applicants in the Iranian National University Entrance Exam (Konkur) for M.Sc. in Computer Engineering.

- Ranked 75th in the National University Entrance Exam (2019) in Region 3, Mathematics and Physics.

Teaching Experience

Teaching Assistant at Isfahan University of Technology

- Theory of Automata and Formal Languages (Fall 2022)   Supervisor: Prof. Hossein Falsafain

- Compiler Design (Spring 2024)   Supervisor: Prof. Hossein Falsafain

- Database Management Systems (Spring 2022)   Supervisor: HamidReza Ravaie

- Programming Workshop (Fall 2021)   Supervisor: Prof. Seyed Jalal Zahabi

Top Projects

- **Deep Learning** [Project Link]
    - Enhancing Accuracy and Precision in Neural Network Classification
    - Intelligent Breast Cancer Detection Using Neural Networks

- **Swarm Intelligence** [Project Link]
    - Optimizing Job Shop Scheduling using Wind-Driven Optimization

- **Internet of Things** [Project Link]
    - Smart Agriculture System using IoT and LoRa
    - Smart Home Automation with Raspberry Pi and YOLO

Skills

- **Programming Languages:** Python, C/C++
- **Python Libraries/Frameworks:** PyTorch, Scikit-learn, Pandas, NumPy, Matplotlib
- **Web/DB Languages:** HTML/CSS, Tailwind
- **Tools:** Git, LaTeX

References

- **Dr. Mehran Safayani** – Assistant Professor, Isfahan University of Technology, Iran
  Email: safayani@iut.ac.ir |Letter of Recommendation

- **Dr. Shirin Bagholizadeh** – Assistant Professor, Isfahan University of Technology, Iran
  Email: baghoolizadeh@iut.ac.ir |Letter of Recommendation

- **Dr. Hossein Falsafein** – Assistant Professor, Isfahan University of Technology, Iran
  Email: h.falsafain@iut.ac.ir |Letter of Recommendation

- **Dr. Fatemeh Deldar** – Assistant Professor, Isfahan University of Technology, Iran
  Email: deldar@iut.ac.ir |Letter of Recommendation