AMIN POURDABIRI

Webpage: pourdabiri.ir

Linkedin: linkedin.com/in/pourdabiri

Github: github.com/pourdabiri

Address: Tehran, Iran

Email:

amin.pourdabiri@alum.sharif.edu

amin_pourdabiri@alumni.iust.ac.ir

amin.pourdabiri@gmail.com

PROFESSIONAL SUMMARY

Accomplished Artificial Intelligence Engineer with a strong background in computer engineering and a focus on natural language processing, machine learning, and deep learning. Possessing a Master's degree in Artificial Intelligence from Iran University of Science and Technology, with notable research contributions and multiple publications in top-tier conferences and journals. Demonstrated expertise in developing innovative AI solutions, including malware detection systems and dialogue systems, and leading technical teams to deliver complex projects. Proven ability to combine technical skills with project management and teaching experience to drive advancements in AI and machine learning applications. Curious developer, with strong programming and software development capabilities.

WORK EXPERIENCE

- **Clanz Company** - Cryptocurrency Exchange, Sydney, Australia   July 2021 - Jan. 2023
  Machine Learning Engineer (Remote)
  - **Automatic Trading**
- **Dadmatech firm** - Artificial intelligence group, Tehran, Iran   Nov. 2019 - Present
  Artificial Intelligence Engineer
  - **Designed a Malware Detection System Based on LLMs, SLMs, and RAG**   Mar. 2024 - Present
    Leading a team of twelve
  - **Developed a Code Obfuscator System Based on LLMs and SLMs**   July 2023 - Mar. 2024
    Led a team of five
  - **Developed a Persian LLM system; called HooshAfarin**   Feb. 2023 - Present
    Collaborating with a team of nine
  - **Created a Persian FAQ Dialogue System for the StarHub event**   Apr. 2021 - June 2021
    Collaborated with a team of six
  - **Developed a Persian Chit-Chat Dialogue System**   Nov. 2019 - Mar. 2021
    Collaborated with a team of six
- **SHK firm** - Information and communications technology (ICT), Tehran, Iran   May 2018 - Jan. 2020
  Information Technology Engineer
- **MAT Start up firm** - Business holding, Tehran, Iran   June 2017 - Feb. 2018
  Website and Application developing

RELATED EXPERIENCE

Projects:

- **Gathering Cattle from The Pasture Simulation** – NetLogo   Jun. 2020
- **End of Speaker Detection in Dialogues Using Text** – Python   Jun. 2019
- **Aspect Extraction for Opinion Mining** – Python   Jun. 2019
- **Annual Country Export and Import Supply Prediction** – Python   Jun. 2019
- **Image Classification Model Based on CNN** – Python   Jan. 2019
- **Implementation of Hill Cipher & Cryptanalysis** – Python   Jan. 2018
- **Online Book Store Website** – ASP.NET MVC and SQL   Jun. 2017
- **Persian and Julian Calendar implementation** – Html/CSS, JavaScript   Jun. 2017
- **Coffee Shop Website** – HTML/CSS   Jun. 2017
- **Tehran Entertainment Website** – WordPress   Jan. 2017
- **Modifying Linux Kernel** – Ubuntu   Jan. 2017
- **Implementation of Snake and 2048 Game** – Java   Jan. 2016
- **Simple Library System Implementation** – C   Jan. 2015

EDUCATION

M.Sc. Computer Engineering, Artificial Intelligence   Sept. 2018 - Sept. 2021
Iran University of Science and Technology, Tehran, Iran
Thesis: *Chit-Chat Dialogue System Based on Movie Dialogues*
Supervisors: Dr. M.T. Pilehvar **and** *Dr. S. Eetemadi*
Cumulative GPA: 3.88

B.Sc. Computer Engineering, Information Technology   Sept. 2014 - Sept. 2018
Sharif University of Technology, Tehran, Iran
Thesis: *Outcome-Based Education (OBE) System*
Supervisor: Prof. M. Izadi
Cumulative GPA: 3.85

RESEARCH INTERESTS

- Machine Learning
- Natural Language Processing
- Multimodal Analysis
- Deep Learning
- Dialogue Systems
- Multimedia System

PUBLICATIONS

[1] M. Zarharan, M. Ghaderan, A. Pourdabiri, Z. Sayedi, B. Minaei Bidgoli, S. Eetemadi, and M. T. Pilehvar, "**ParsFEVER: a Dataset for Farsi Fact Extraction and Verification**", in **SEM*, Bangkok, 2021.

[2] T. Shangipour, K. Darvishi, S. Javdan, A. Pourdabiri, B. Minaei Bidgoli, and M. T. Pilehvar, "**Pars-OFF: A Benchmark for Offensive Language Detection on Farsi Social Media**", in *IEEE Transactions on Affective Computing*, 2022.

[3] Z. Sayedi, A. Pourdabiri, M. Zarharan, S. Eetemadi and M. T. Pilehvar, "**Automatic Construction of a Large-scale Dialogue Dataset Based on Movie Subtitles**". *(In Preparation).*

[4] A. Pourdabiri, Z. Sayedi, M. Zarharan, S. Eetemadi, and M. T. Pilehvar, "**Developing an Open-Domain Dialogue System, Considering Text and Voice of Movie Dialogues**". *(In Preparation).*

TEACHHING EXPERIENCE

Iran University of Science and Technology:

- **Natural Language Processing with Deep Learning**   Feb. 2021 - Aug. 2021
  Instructors: *Dr. S. Eetemadi*
  Course webpage: sauleh.ir/nlp99/
    - Coordinated lecturing topics: The Fundamentals of Natural Language Processing and Deep Learning
- **Advanced Data Mining**   Feb. 2021 - Aug. 2021
  Instructors: *Prof. B. Minaei Bidgoli*
    - Coordinated lecturing topics: The Fundamentals of Advanced Data Mining
- **Deep Learning**   Feb. 2020 - Aug. 2020
  Instructor: *Dr. M.T. Pilehvar*
  Course webpage: iust-deep-learning.github.io/982/
    - Coordinated lecturing topics: The Fundamentals of Deep Neural Networks and TensorFlow 2
- **Natural Language Processing**   Sept. 2019 - Feb. 2020
  Instructors: *Dr. M.T. Pilehvar* **and** *Prof. B. Minaei Bidgoli*
    - Coordinated lecturing topics: The Fundamentals of Natural Language Processing and Deep Learning

Sharif University of Technology:

- **Multimedia Systems**   Sept. 2018 - Feb. 2018
  Instructor: *Dr. M. Amiri*
    - Coordinated MATLAB Tutorial: variables, vectors, graphs and plots, filtering images, and manipulating video frames
- **Operating Systems,** Computer Engineering Dept.   Feb. 2016 - Jun. 2017
  Instructor: *Dr. A. Sepehr*
    - Coordinated lecturing topics: Virtual Machines and Linux environment

∗ In all teaching experiences I have coordinated assignments, quizzes and grading.

HONORS AND AWARDS

- **Iran's National Elites Foundation member**
  Project-Based Military Service

- **Ranked 8th in M.Sc.**   Sept. 2020
  Artificial Intelligence, Iran University of Science and Technology

- **Ranked 3rd in B.Sc.**   Sept. 2018
  Information Technology, Sharif University Technology

  - **Ranked 3rd** - Spring Semester, Jun. 2018   − **Ranked 3rd** - Fall Semester, Jan. 2016
  - **Ranked 2rd** - Fall Semester, Jan. 2018   − **Ranked 3rd** - Spring Semester, Jun. 2015

COMPUTER SKILLS

Programming Languages: Python, Java, HTML/CSS, JavaScript, ASP.NET, C#, C/C++, SQL, MATLAB

Applications and Libraries: PyCharm, Jupyter, Anaconda, IntelliJ IDEA, VSCode, Visual Studio, Microsoft Office, Elastic, MySQL, SQL Server, PostgreSQL, Quartus, ModelSim, Proteus, WireShark, Arena, Scikit-learn, Keras, TensorFlow, PyTorch, Transformers, Docker, PowerBI, Swagger, Postman, AWS

Platforms: Windows, Linux, Android

LANGUAGES

Persian: Native Language

English: Advanced Reading, Writing, Listening; Intermediate Speaking (IELTS Academic test Scheduled)

REFERENCES

- References available upon request.