

# AMIN POURDABIRI

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## 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

- **Dadmatech Company** - Artificial intelligence group, Tehran, Iran Nov. 2019 - Present  
Artificial Intelligence Engineer
  - **Designing an Intelligent Document Routing System within the Organization** Oct. 2024 - Present  
Leading a team of five
  - **Designed a Malware Detection System Based on LLMs, SLMs, and RAG** Mar. 2024 - Oct. 2024  
Led a team of twelve
  - **Developed a Code Obfuscator System Based on LLMs and SLMs** Jul. 2023 - Mar. 2024  
Led a team of five
  - **Developed a Persian LLM system; called HooshAfarin** Feb. 2023 - Mar. 2024  
Collaborated with a team of nine
  - **Developed a Persian FAQ Dialogue System; called Chatyar** Apr. 2021 - Jun. 2021  
Collaborated with a team of six
  - **Developed a Persian Chit-Chat Dialogue System** Nov. 2019 - Mar. 2021  
Collaborated with a team of six
- **SeaMaster Company** - Ship agency partner, UAE, Dubai (Remote) Dec. 2024 - Present  
Artificial Intelligence Engineer
  - **Developing an Analysis System for Cost-Effective Shipping**
- **Clanz Company** - Cryptocurrency Exchange, Sydney, Australia (Remote) Jul. 2021 - Jan. 2023  
Machine Learning Engineer, Software Engineer
  - **Developed Automated Trading Algorithms for Cryptocurrency Exchange**
  - **Developed back-end modules for Cryptocurrency Exchange**  
Implemented Pay gate, Cryptocurrency chart, Fee and profit calculation, etc.
- **SHK Company** - Information and communications technology (ICT), Tehran, Iran May 2018 - Jun. 2021  
Information Technology Engineer (Part-time, Freelancer)
- **MAT Startup Company** - Business holding, Tehran, Iran Jun. 2017 - Feb. 2018  
Website and Application Developer

## 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
- **Modifying Linux Kernel** – Ubuntu Jan. 2017
- **Implementation of Snake and 2048 Game** – Java Jan. 2016
- **Simple Library System Implementation** – C Jan. 2015

## EDUCATION

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- 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

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

## PUBLICATIONS

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- [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)*.

## TEACHING EXPERIENCE

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*Iran University of Science and Technology:*

- Teaching Assistant Feb. 2020 - Aug. 2021
- Supported instruction for the following graduate-level courses:
    - **Natural Language Processing with Deep Learning**
    - **Advanced Data Mining**
    - **Deep Learning**
    - **Natural Language Processing**
  - Responsibilities included coordinating lecture content, preparing assignments and quizzes, assisting with labs, and managing grading.
  - Technologies used: Python, TensorFlow, Keras, Scikit-learn.

*Sharif University of Technology:*

- Teaching Assistant Feb. 2016 - Feb. 2018
- Assisted in undergraduate courses including:
    - **Multimedia Systems (MATLAB-based image and video processing)**
    - **Operating Systems (Linux virtual machines, system-level concepts)**
    - **Deep Learning**
    - **Natural Language Processing**
  - Led tutorials and hands-on lab sessions; graded coursework and supported students' practical exercises.

## HONORS AND AWARDS

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- **Iran's National Elites Foundation member**  
Project-Based Military Service
- **8<sup>th</sup> Rank - M.Sc.**  
Artificial Intelligence, Iran University of Science and Technology
- **3<sup>rd</sup> Rank - B.Sc.**  
Information Technology, Sharif University Technology
  - Top 3 in multiple semesters

## COMPUTER SKILLS

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**Languages:** Python, Java, SQL, HTML/CSS, JavaScript, C#, C/C++, Go

**Frameworks & Libraries:** TensorFlow, PyTorch, Keras, Transformers, Scikit-learn

**Tools:** Docker, AWS, Jupyter, Postman, PowerBI, Swagger, PyCharm, VSCode

**Databases:** PostgreSQL, SQL Server, MySQL

**Platforms:** Windows, Linux, Android

## LANGUAGES

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**Persian** (Native)

**English:** (Advanced Reading/Writing; Intermediate Speaking – IELTS Academic scheduled)

## REFERENCES

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- References available upon request.