Saeed Lotfi

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🔗 GitHub: [Link]   🔗 LinkedIn: [Link]   🔗 Website: [Link]

🎯 Research Interests

Machine Learning, Deep Learning, Natural Language Processing, Recommender Systems, Generative AI

🧠 Education

M.Sc. in Artificial Intelligence and Robotics

K.N. Toosi University of Technology – Tehran, Iran

2019 – 2022 | GPA: 16/20

B.Sc. in Electrical Engineering – Electronics

Semnan University – Semnan, Iran

2012 – 2017

🔬 Research Experience

Data Scientist

Ofogh Koorosh Chain Stores – Tehran, Iran | July 2025 – Present

AI Developer / Researcher

Sharif Hamrah Pazhouhan – Tehran, Iran | Nov 2023 – Apr 2025

- Conducted research on **trajectory data prediction** using Transformer-based models.
- Developed **PyQt-based applications** for interactive data analysis.
- Fine-tuned language models for **feature extraction from tweets**.
- Collaborated in integrating models into applied software systems.

AI Researcher

Iranian Research Organization for Science and Technology (IROST) – Tehran, Iran | Jul 2022 – Feb 2023

- Designed a **self-supervised model** for **cardiac arrhythmia detection** using ECG signals.
- Tackled class imbalance with representation learning methods requiring minimal labels.

AI Developer

Aicell – Tehran, Iran | Oct 2020 – Jan 2022

- Fine-tuned **wave2vec** for real-time speech recognition in social robots.
- Created an **intent detection** model for airport interaction systems.

- Worked on deploying conversational agents in real-world environments.

📄 Publications

Network Intrusion Detection with Limited Labeled Data Using Self-supervision
ArXiv Preprint (2022)
🔗 https://arxiv.org/abs/2209.03147

🏅 Honors & Academic Awards

- 🥇 **1st Place – Rahneshan Contest**, National Elite Foundation (2020)

- 👩‍🏫 **Teaching Assistant** – Advanced Data Mining, K.N. Toosi University (2022)

💼 Technical Skills

- **Programming:** Python, PyTorch, TensorFlow, Scikit-learn, NumPy, Pandas

- **ML Techniques:** NLP, Time Series, Recommender Systems, Contrastive Learning, Signal Processing

- **DevOps & Tools:** Git, GitLab, GitHub Actions, Docker, Airflow, MLflow

- **Software Development:** PyQt, REST APIs

- **Databases:** MySQL, PostgreSQL

📈 Training & Certifications

- **Machine Learning Specialization** – Coursera, 2023 (3 months)

- **ML in Production** – Coursera, 2022 (2 months)

- **Neural Networks and Deep Learning** – Coursera, 2020 (2 months)

🌍 Languages

- IELTS – Score: **6.0**

- GRE – Score: **325**