Arman Ahangari Kiasari

AI Researcher

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SUMMARY

AI researcher with an **M.Sc. in Computer Engineering, Artificial Intelligence and Robotics**, with hands-on experience in **machine learning and deep learning** and foundational knowledge of **reinforcement learning**. Experienced in applying these methods to **image, signal, audio, and tabular data**, from data preprocessing and feature engineering to model design and evaluation. Author of one published IEEE conference paper, with more than three years of professional experience in **signal processing and applied AI**. Open to research and applied AI collaborations.

WORK EXPERIENCE

AI Research Engineer, Clinical Signal Processing | Metable, Part-Time — Sep. 2022 – Feb. 2024

- Selected and implemented AI methods for physiological signal analysis and disease detection
- Tuned models for predictive performance and real-time suitability

Software Engineer, Patient Monitoring Devices | Roshan Andishan Radman, Remote — Aug. 2019 – Nov. 2021

- Developed signal-processing algorithms for pulse oximeter and alcohol sensor data
- Implemented blood oxygen and breath-alcohol estimation and tested it under varying conditions

Web Developer | Freelance — Feb. 2020 – Dec. 2020

- Built three custom websites with ASP.NET, C#, and SQL Server, with online payments and admin panels

Robotics Instructor | Freelance, Part-Time — Jan. 2018 – Jun. 2019

- Taught an in-person Arduino robotics course on line-following robots to six students aged 15–18

Computer Repair Technician | Aida Computer Repair Shop, Part-Time — Jul. 2016 – Sep. 2017

- Repaired laptop and desktop hardware, installed software, and sold computer accessories

EDUCATION

M.Sc. Computer Engineering, Artificial Intelligence and Robotics — Sep. 2022 – Dec. 2026
Islamic Azad University, Central Tehran Branch

B.Sc. Computer Engineering — Sep. 2016 – Feb. 2022
University College of Rouzbahan

PUBLICATIONS

1. **Arman Ahangari Kiasari**, “Improving Gallstone Disease Prediction through Composite Feature Optimization with CatBoost,” *IBAAIDS 2026*, IEEE, Bushehr, Iran, 2026. doi:10.1109/IBAAIDS66771.2026.11567395 (Published)
2. **Arman Ahangari Kiasari**, Ali Ghasemi Sahebi, “Concurrent Tumour-Status Classification in Neurofibromatosis Type 1 Using Contextual Bandit and Local Phenotype Evidence,” *ICSPIS 2026*, IEEE, Oct. 2026 (Submitted)
3. **Arman Ahangari Kiasari**, “TC-LFM: Triplet-Consistent Latent Flow Matching for Conditional Generation of Cardiopulmonary Sounds” (Ongoing)

PROJECTS

- **Congenital Heart Disease Diagnosis:** hybrid ResNet50 and DenseNet121 with transfer learning on pediatric chest X-rays.
- **Breast Tumor Classification:** multilayer perceptron with feature selection and dropout on the Wisconsin dataset.
- **Speech Recognition Review:** comparison of feature extraction techniques and classifiers.
- **Disaster Assistance Prediction:** decision tree, SVM, gradient boosting, and k-nearest neighbors on FEMA data.
- **Online Bread Ordering Application:** ASP.NET and SQL Server web application with an admin dashboard.

SKILLS

Programming: Python, JavaScript, Java, C, C++, C#

AI & Machine Learning: PyTorch, Torchvision, TensorFlow, Keras, scikit-learn, CatBoost, OpenCV

Data Science & Scientific Computing: NumPy, Pandas, SciPy, Matplotlib, Seaborn, Plotly

Research & Development Tools: VS Code, Jupyter Notebook, Google Colab, Git, GitHub, TensorBoard, SQL, draw.io, ResearchRabbit, Mendeley, Microsoft Word