

Fereydoon Aliyari

Machine Learning & AI Engineer | Computer Science Student

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Summary

Junior AI researcher focused on Machine Learning and AI Engineering, with hands-on experience developing deep learning, computer vision, Earth observation applications. Experienced in building end-to-end ML workflows including data preprocessing, model development, evaluation, deployment, and containerization.

Experience

NISC Lab, University of Messina (<https://nisc.unime.it/>)

Nov 2025 – Jan 2026

Research Intern — Embedded Systems & Wearable Technology

- Developed embedded firmware for a wearable medical monitoring bracelet using Zephyr RTOS, integrating biomedical sensors, real-time data processing, display functionality, and hardware control.
- Designed and implemented a **three-stage Device Firmware Update (DFU) architecture** with firmware validation and automatic rollback to improve update reliability and safety.
- Performed hardware-level testing and debugging, validating sensor integration, display operation, firmware updates, rollback mechanisms, and full-system operation on the physical device.

Projects

Education

Università degli Studi di Messina — BSc, Computer Science (L-31) – Data Analysis | Messina, Italy

Graduated: October 2026

Università degli Studi di Milano — MSc, Computer Science (LM-18) | Milan, Italy

Skills

- Python, C, SQL, Bash
- PyTorch, scikit-learn, NumPy, Pandas, model training, evaluation, feature engineering, time-series modelling
- Neural Networks, CNNs, LSTMs, State Space Models, representation learning

Languages

English (C1)